



# MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY



Melumoi (Post), Palamaner-517408.

(Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu-515002)

(Email: [mtieat@gmail.com](mailto:mtieat@gmail.com) Website: [www.mtieat.com](http://www.mtieat.com))

[COLLEGE CODE: HR]

## DEPARTMENT OF MECHANICAL ENGINEERING

Place: Palamaner,

Date: 08.12.2016

To

The Principal,

MTIET,

Palamaner.

**Sub:** Organizing Value Added Course for II B.TECH students titled  
"COMPUTER NUMERICAL CONTROL PROGRAMMING"  
(CNC PROGRAMMING) - Req., & Regd.

\*\*\*\*\*

With the reference to the subject cited above, I bring to your kind notice that to enhance the general skills and enrichment of the curriculum, the department of Mechanical Engineering is organizing a Value Added Course titled, "COMPUTER NUMERICAL CONTROL PROGRAMMING" (CNC PROGRAMMING) for the II B.Tech students during the inter semester break with **minimum duration of 30 hours**. The Program will be conducted from 12.12.2016 to 17.12.2016.

In this connection the undersigned is proposing a request to grant the permission to organize the mentioned course for the second year students.

Please consider with prior hierarchy.

Thanking you,

*D. S. S.*  
8/12/2016  
HOD

HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg. & Tech.,  
PALAMANER - 517 408.



# MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY



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[COLLEGE CODE: HR]

## DEPARTMENT OF MECHANICAL ENGINEERING

Ref.: MTIET/ME/VAC/CIR-01

Place: Palamaner,

Date: 08.12.2016.

### C I R C U L A R

This is here by informed to all the II B.Tech students that the Department is very glad to organize a Value Added Course to improve the skills on “COMPUTER NUMERICAL CONTROL PROGRAMMING” (CNC PROGRAMMING) during the period of inter semester break that is from 12-12-2016 to 17-12-2016, with minimum duration of 30 hours.

So all the interested students should register their names through the Department coordinator.

  
8/12/2016  
HOD

HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg. & Tech.,  
PALAMANER - 517 408.

#### Circulation to:

1. The II B.Tech Class rooms.
2. The Department Notice board.
3. Department file.



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[COLLEGE CODE: HR]

## DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE: CNC PROGRAMMING

COURSE SYLLABUS :: AY 2016-17

\*\*\*\*\*

Duration: 30 Hours

### UNIT I

6 hours

Introduction to CNC programming, Introduction and demonstration of line programs, CNC programming for lathe & milling machine using ISO codes into the CNC simulator, CNC programming for lathe and milling machines using different machining cycles into the CNC simulator.

### UNIT II

6 hours

Procedures Associated with part programming, Cutting process parameter selection, Process planning issues and path planning, G & M Codes, Interpolations, Canned Cycles and Subprograms.

### UNIT III

6 hours

Exposure for programming and simulator of FANUC, HAAS Controls through post processors Programming exercise.

### UNIT IV

6 hours

Machining of programmed exercise on CNC lathe & milling machines, Optimize programs for CNC turning operations, Calculate parameters like speed feed etc.

### UNIT V

6 hours

Operation sequence for the lathe operations like turning, grooving etc., Prepare & set CNC lathe operations and test run programmed, Execute program and inspect simple geometrical forms / standard parts.

*G. Ravindra Naidu*  
8/12/2016

CO-ORDINATOR

*D. S. R. Reddy*  
8/12/2016

HOD/ME

HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg. & Tech.,  
PALAMANER - 517 408.





DEPARTMENT OF MECHANICAL ENGINEERING  
VALUE ADDED COURSE:: CNC PROGRAMMING(1603VAC01)

II B.TECH, STUDENT REGISTRATION FORM

Academic Year 2016-17

\*\*\*\*\*

S.NO.	REGD. NO.	NAME OF THE STUDENT	SIGNATURE
1	15HR1A0301	A SADASHIVA	A. SADASHIVA
2	15HR1A0302	ALLA REDDISEKHAR REDDY	A. Reddi Shekar
3	15HR1A0303	ANDEPPAGARI BALAJI	A. Balaji
4	15HR1A0304	B MURALI KRISHNA	B. Murali Krishna
5	15HR1A0305	BASA KISHORE KUMAR	B. Kishore Kumar
6	15HR1A0306	BATHINI SIVAKUMAR	B. Siva Kumar
7	15HR1A0307	BOMMALAKUNTA VEERAGANGADHARA	B. Veera Gangadhara
8	15HR1A0308	C MANOJKUMAR	C. Manoj Kumar
9	15HR1A0309	C SREEKANTH REDDY	G. Sreekanth reddy
10	15HR1A0310	CHEKKALA VIJAYAKUMAR	C. Vijay Kumar
11	15HR1A0312	DEVAGIRI MAHESHKUMAR	D. MAHESH Kumar
12	15HR1A0313	DONTHI HEMANTH	D. hemanth
13	15HR1A0314	ENDLURI ARAVIND	E. Aravind
14	15HR1A0316	J NEELAKANTA	J. Neelakanta
15	15HR1A0317	JANAKIVARI MAHESH	J. mahesh
16	15HR1A0318	JANGAM SUMANTH REDDY	J. sumanth reddy
17	15HR1A0319	K BABA SHARIEF	K. B. Sharief
18	15HR1A0320	K N HARISH	K. N. Harish
19	15HR1A0321	K PRASANTH KUMAR	K. Prasanth Kumar
20	15HR1A0322	K RAJESH	K. Rajesh
21	15HR1A0323	KUMMARA JYOTHEESH	K. Jyotheesh
22	15HR1A0324	KUNTAPALLI MADHUKAR REDDY	K. madhukar reddy
23	15HR1A0325	L C SANDEEP REDDY	LC Sandeep Reddy
24	15HR1A0326	L MURALITHARUN	L. Muralitharun
25	15HR1A0327	M KARTHIK	M. Karthik

26	15HR1A0328	M S KIRAN	M.S.Kiran
27	15HR1A0329	MADAVALI REDDY MAHESH	M. Mahesh Reddy
28	15HR1A0330	MADHYAHNAM KIRANKUMAR	M. Kirankumar
29	15HR1A0331	MANNELI SIVAIAH	M. Sivaiah
30	15HR1A0332	MEKALA SURENDRA	M. Surendra
31	15HR1A0333	MITAI SHOWKATH BASHA	M. Showkath Basha
32	15HR1A0334	MUTYALA SREENIVASULU	M. Sreenivasulu
33	15HR1A0335	P SAI NAVEEN	P. Sai Naveen
34	15HR1A0336	PALYAM YUGANDHAR	P. Yugandhar
35	15HR1A0337	PATRA APARNA	P. Aparna
36	15HR1A0339	RAMAMURTHY SUSEEL KUMAR	R. Suseel Kumar
37	15HR1A0340	S AFZAL BASHA	S. Afzal Basha
38	15HR1A0342	S RAMEEZ HUSSAIN	S. Rameez Hussain
39	15HR1A0343	S R SASIDHAR NAIDU	S.R. Sasidhar Naidu
40	15HR1A0344	S S ABDULLAH	SS Abdullah
41	15HR1A0346	S YOGANANDHA	S. Yoganandha
42	15HR1A0347	SAMMITI PURUSHOTHAM RAJU	S. Purushotham Raju
43	15HR1A0348	SANKARAPU THEJA	S. Theja
44	15HR1A0349	THALURU JAGADEESH	T. Jagadeesh
45	15HR1A0350	TUMMALA SIVASANKARA VARAPRASAD	T.S. Varaprasad
46	15HR1A0351	V BHANUPRAKASH REDDY	V. Bhanu prakash Reddy
47	15HR1A0352	Y BALAJICHOWDARY	Y. Balaji Chowdary
48	16HR5A0301	BANDARU LAKSHMI PRASANNA	B. Lakshmi prasanna
49	16HR5A0302	C MADHUSUDHAN	C Madhusudhan
50	16HR5A0303	CHARAN A	- Charan
51	16HR5A0304	CHINNAKAGARI NANDIVAHANA REDDY	C. Nandivahana
52	16HR5A0305	DURGAM ANIL KUMAR	D. Anil Kumar
53	16HR5A0306	GANDLA VASUGARI MANJUNATH	G. vasugari Manjunath
54	16HR5A0307	KUMAR GOVINDARAJULU	K. Govindharajulu
55	16HR5A0308	M NAGENDRA BABU	M. Nagendra babu
56	16HR5A0309	PODALA MAHESH KUMAR	P. Mahesh Kumar

57	16HR5A0310	Y KIRAN KUMAR REDDY	Y. KIRAN KUMAR Reddy
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*D. Ravindra Naik*  
CO-ORDINATOR  
*17/12/2016*

Copy to:

Dept. file  
Coordinator

*D. Suresh*  
HOD  
*17/12/2016*  
HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg & Tech  
PALAMANER - 517 408.











56	16HR5A0309	PODALA MAHESH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
57	16HR5A0310	Y KIRAN KUMAR REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
		No. of Absent	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	1
		Expert Signature:	D. Ravincha Naik															

D. Ravincha Naik  
CO-ORDINATOR  
17/12/2016

Reserve  
HOD 17/12/2016  
HEAD OF THE DEPT.  
Mechanical Engineering  
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## DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED COURSE:: CNC PROGRAMMING (1603VAC01)

### II B.TECH, COURSE SCHEDULE ::

Academic year 2016-2017

\* \* \* \* \*

S.NO.	DAY(S)	DATE	Duration	TIME	TOPIC(S)	EXPERT DETAILS
1	DAY 1	12-12-16	30 mins	09:30-10:00	Inauguration	D.Ravindra Naik
2			1 hour	10:00-11:00	Introduction, demonstration of line programs	
3			2 hours	11:00-01:00	CNC programming for lathe & milling machine using ISO codes into the CNC simulator, CNC programming for lathe and milling machines using different machining cycles into the CNC simulator	
4			2 hours 30 mins	02:00-04:30	part programming, Process planning issues, G & M Codes.	
5	DAY 2	13-12-16	30 mins	09:30-10:00	Interpolations, Canned Cycles and Subprograms.	D.Ravindra Naik
6			1 hour	10:00-11:00	Exposure for programming and simulator of FANUC.	
7			2 hours	11:00-01:00		
8			2 hours 30 mins	02:00-04:30	Brief discussion on M-Codes	
9	DAY 3	14-12-16	30 mins	09:30-10:00	HAAS Controls through post processors	K.Bavaji
10			1 hour	10:00-11:00		
11			2 hours	11:00-01:00	Programming exercise.	
12			2 hours 30 mins	02:00-04:30		
13	DAY 4	15-12-16	1 hour 30 mins	09:30-11:00	Machining of programmed exercise on CNC lathe & milling machines.	K.Bavaji
14			2 hours	11:00-01:00		
15			2 hour 30 mins	02:00-04:30	Optimize programs for CNC turning operations.	
16	DAY 5	16-12-16	1 hour 30 mins	09:30-11:00	Calculate parameters like speed feed etc, Operation sequence for the lathe operations like turning, grooving etc	K.Nagi Reddy
17			2 hours	11:00-01:00		
18			2 hours 30 mins	02:00-04:30	Prepare & set CNC lathe operations and test run programmed	
19	DAY 6	17-12-16	1 hour 30 mins	09:30-11:00	Execute program and inspect simple geometrical forms / standard parts.	K.Nagi Reddy
20			2 hours	11:00-01:00	Conduction of exam	
21			1 hour	02:00-03:00		
22			1 hour 30 mins	03:00-04:30	Distribution of Certificates	

Total Duration of Course: 36 hours.

*D. Ravindra Naik*  
17/12/2016  
CO-ORDINATOR

*D. Ravindra Naik*  
17/12/2016  
HOD/ME  
HEAD OF THE DEPT.  
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## DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED COURSE:: CNC PROGRAMMING (1603VAC01) QUESTION PAPER ACADEMIC YEAR 2016-2017

\*\*\*\*\*

ANSWER ALL THE FOLLOWING QUESTIONS EACH CARRY EQUAL MARKS

15X2=30MARKS

1. Explain different elements of FMS.
2. Explain common joints used in robots.
3. Explain different applications of robots.
4. Explain Manufacturing Resource Planning.
5. Explain different types of CMM.
6. Explain Retrieval CAPP system.
7. Explain each inputs of the MRP system.
8. Explain utilization of CNC machines in batch production.
9. Explain axes designation for CNC machines.
10. Explain open loop and closed loop control system of CNC machines.
11. Define GT. Explain OPITZ coding system for GT.
12. Explain different types of machine cells and layouts in GT.
13. How GT cell is different from Process Layout? Explain.
14. Explain AS/RS and AGV for manufacturing system.
15. Explain different flexibilities in FMS.

*J. Ravindra Naidu*  
CO-ORDINATOR 17/12/2016

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Coordinator

*D. Sreenivasulu Reddy*  
HOD 17/12/2016  
HEAD OF THE DEPT.  
Mechanical Engineering  
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## DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED COURSE:: CNC PROGRAMMING(1603VAC01)

### II B.TECH, STUDENT EVALUATION FORM

Academic Year 2016-17

\*\*\*\*\*

S.NO.	REGD. NO.	NAME OF THE STUDENT	GRADE
1	15HR1A0301	A SADASHIVA	A
2	15HR1A0302	ALLA REDDISEKHAR REDDY	A
3	15HR1A0303	ANDEPPAGARI BALAJI	A
4	15HR1A0304	B MURALI KRISHNA	D
5	15HR1A0305	BASA KISHORE KUMAR	B
6	15HR1A0306	BATHINI SIVAKUMAR	B
7	15HR1A0307	BOMMALAKUNTA VEERAGANGADHARA	C
8	15HR1A0308	C MANOJKUMAR	C
9	15HR1A0309	C SREEKANTH REDDY	A
10	15HR1A0310	CHEKKALA VIJAYAKUMAR	A
11	15HR1A0312	DEVAGIRI MAHESHKUMAR	D
12	15HR1A0313	DONTHI HEMANTH	A
13	15HR1A0314	ENDLURI ARAVIND	A
14	15HR1A0316	J NEELAKANTA	A
15	15HR1A0317	JANAKIVARI MAHESH	D
16	15HR1A0318	JANGAM SUMANTH REDDY	B
17	15HR1A0319	K BABA SHARIEF	C
18	15HR1A0320	K N HARISH	A
19	15HR1A0321	K PRASANTH KUMAR	A
20	15HR1A0322	K RAJESH	A
21	15HR1A0323	KUMMARA JYOTHEESH	B
22	15HR1A0324	KUNTAPALLI MADHUKAR REDDY	A
23	15HR1A0325	L C SANDEEP REDDY	A
24	15HR1A0326	L MURALITHARUN	B
25	15HR1A0327	M KARTHIK	C



26	15HR1A0328	M S KIRAN	A
27	15HR1A0329	MADAVALI REDDY MAHESH	A
28	15HR1A0330	MADHYAHNAM KIRANKUMAR	A
29	15HR1A0331	MANNELI SIVAI AH	B
30	15HR1A0332	MEKALA SURENDRA	C
31	15HR1A0333	MITAI SHOWKATH BASHA	C
32	15HR1A0334	MUTYALA SREENIVASULU	A
33	15HR1A0335	P SAI NAVEEN	A
34	15HR1A0336	PALYAM YUGANDHAR	A
35	15HR1A0337	PATRA APARNA	B
36	15HR1A0339	RAMAMURTHY SUSEEL KUMAR	B
37	15HR1A0340	S AFZAL BASHA	A
38	15HR1A0342	S RAMEEZ HUSSAIN	A
39	15HR1A0343	S R SASIDHAR NAIDU	A
40	15HR1A0344	S S ABDULLAH	A
41	15HR1A0346	S YOGANANDHA	B
42	15HR1A0347	SAMMITI PURUSHOTHAM RAJU	C
43	15HR1A0348	SANKARAPU THEJA	C
44	15HR1A0349	THALURU JAGADEESH	A
45	15HR1A0350	TUMMALA SIVASANKARA VARAPRASAD	A
46	15HR1A0351	V BHANUPRAKASH REDDY	A
47	15HR1A0352	Y BALAJICHOWDARY	B
48	16HR5A0301	BANDARU LAKSHMI PRASANNA	C
49	16HR5A0302	C MADHUSUDHAN	A
50	16HR5A0303	CHARAN A	B
51	16HR5A0304	CHINNAKKAGARI NANDIVAHANA REDDY	A
52	16HR5A0305	DURGAM ANIL KUMAR	A
53	16HR5A0306	GANDLA VASUGARI MANJUNATH	A
54	16HR5A0307	KUMAR GOVINDARAJULU	A
55	16HR5A0308	M NAGENDRA BABU	A
56	16HR5A0309	PODALA MAHESH KUMAR	A

57	16HR5A0310	Y KIRAN KUMAR REDDY	B
----	------------	---------------------	---

Grade A>75%, B>65%, C>50%, D-FAIL

*P. Ravindra Naik*  
CO-ORDINATOR  
*17/12/2016*

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Coordinator

*P. Ravindra Naik*  
HOD  
HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg. & Tech.,  
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**DEPARTMENT OF MECHANICAL ENGINEERING**

Report-On

**VALUE ADDED COURSE:: CNC PROGRAMMING(1603VAC01)**

**Academic Year 2016-17**

\* \* \* \* \*

The Department of Mechanical engineering has conducted a value added course on CNC PROGRAMMING organized for students of II Year Mechanical Engineering students during 12<sup>th</sup> Dec to 17<sup>th</sup> Dec 2016 to enhance the student knowledge to meet the future industrial demand. The faculties has given mix of theory and practical knowledge on cnc programming.

This program was organized by Dr.D.Sreenivasulu Reddy, Head of the department with the co-ordination of D.Ravindra Naik, Associate Professor, ME Department, K.Bavaji, Associate Professor, ME Department, K.Nagi Reddy, Associate Professor, ME Department.

The value added course was organized for six days effective from 12.12.2016 to 17.12.2016 with a total duration of 36 hrs. Fifty seven students from second year Mechanical Engineering were benefitted from this program. The program was held in Mechanical Seminar hall for inauguration. Theory and technical session practical's were conducted in E learning lab.

**TOPICS COVERED**

**UNIT I**

Introduction to CNC programming, Introduction and demonstration of line programs, CNC programming for lathe & milling machine using ISO codes into the CNC simulator, CNC programming for lathe and milling machines using different machining cycles into the CNC simulator.

**UNIT II**

Procedures Associated with part programming, Cutting process parameter selection, Process planning issues and path planning, G & M Codes, Interpolations, Canned Cycles and Subprograms.

**UNIT III**

Exposure for programming and simulator of FANUC, HAAS Controls through post processors Programming exercise.

**UNIT IV**

Machining of programmed exercise on CNC lathe & milling machines, Optimize programs for CNC turning operations, Calculate parameters like speed feed etc.

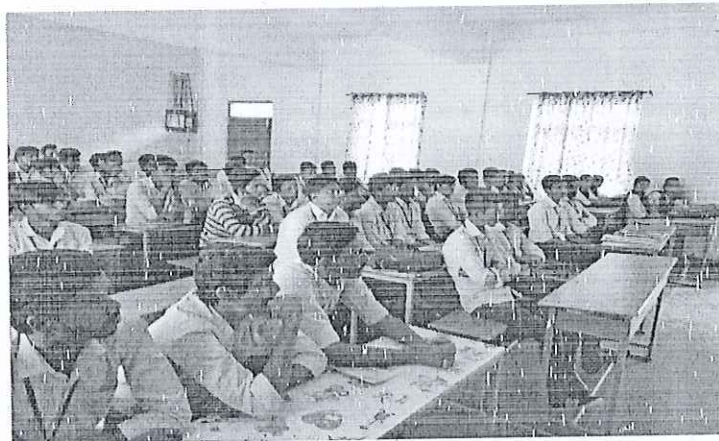
## UNIT V

Operation sequence for the lathe operations like turning, grooving etc., Prepare & set CNC lathe operations and test run programmed, Execute program and inspect simple geometrical forms / standard parts.

The value added course is successfully completed with the cooperation of each and every faculty member of the department and student participants.

### Course Outcomes:

- Students were able to understand the codes used in CNC machines for programming.
- Students were able to develop Programming skills and create an component for required drawing, Simulate the prepared part programme using simulation software.



During Lecture Hours

*D. Ravinder Nair*  
CO-ORDINATOR 17/12/2016





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DEPARTMENT OF MECHANICAL ENGINEERING  
VALUE ADDED COURSE:: CNC PROGRAMMING(1603VAC01)

Academic Year 2016-17

\*\*\*\*\*

Feedback Form

Name of the Staff: 1. D.Ravindra Naik

2. K.Bavaji

3. K.Nagi Reddy

Choose:

- 5- Excellent
- 4- Very Good
- 3- Good
- 2- Fair
- 1- Poor

S.No	Description	5	4	3	2	1
1	Organization of Subject in Logical Sequence	✓				
2	Clarity and audibility of Speech	✓				
3	Method of Explanation with proper Illustrations & Examples			✓		
4	Way of Raising doubts & Effective clarification of doubts		✓			
5	Relevance of the lecture to the topic announced		✓			
6	Overall Performance	✓				

Suggestions if any: *No suggestions.*

*Sadasivva*  
18/12/2016  
Signature (Optional)



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DEPARTMENT OF MECHANICAL ENGINEERING  
VALUE ADDED COURSE:: CNC PROGRAMMING(1603VAC01)

Academic Year 2016-17

\*\*\*\*\*

Feedback Form

Name of the Staff: 1. D.Ravindra Naik

2. K.Bavaji

3. K.Nagi Reddy

Choose:

- 5- Excellent
- 4- Very Good
- 3- Good
- 2- Fair
- 1- Poor

S.No	Description	5	4	3	2	1
1	Organization of Subject in Logical Sequence	✓				
2	Clarity and audibility of Speech			✓		
3	Method of Explanation with proper Illustrations & Examples	✓				
4	Way of Raising doubts & Effective clarification of doubts		✓			
5	Relevance of the lecture to the topic announced	✓				
6	Overall Performance	✓				

Suggestions if any: I got good knowledge.

*[Signature]*  
Signature (Optional)





DEPARTMENT OF MECHANICAL ENGINEERING  
VALUE ADDED COURSE:: CNC PROGRAMMING(1603VAC01)  
Academic Year 2016-17

\*\*\*\*\*

**Feedback Analysis**

Number of students submitted Feedback Forms: 57

Total number of Points: 285

S.No	Description	Excellent	Very Good	Good	Fair	Poor	%
1	Organization of Subject in Sequence	35	18	3	1	0	90.52632
2	Clarity and audibility of Speech	36	17	2	2	0	90.52632
3	Method of Explanation with proper Illustrations & Examples	33	20	04	00	0	90.17544
4	Way of Raising doubts & Effective clarification of doubts	34	18	04	01	0	89.82456
5	Relevance of the lecture to the topic announced	32	20	03	02	0	88.77193
6	Overall Performance	42	15	00	00	0	94.73684
<b>Total(Average)</b>							90.75%

- Total Points  $\geq 90$  → Excellent (5 Points)  
Total Points  $\geq 80$  → Very Good (4 Points)  
Total Points  $\geq 70$  → Good (3 Points)  
Total Points  $\geq 50$  → Fair (2 Points)  
Total Points  $\leq 49$  → Poor (1 Points)

Feedback analysis report: The Value added course was excellent based on the feedback percentage that was given by the student

*J. Ravinder Naidu*  
17/12/2016  
CO-ORDINATOR

*D. S. H. H. H.*  
HOD/ME

HEAD OF THE DEPT.  
Mechanical Engineering  
Mother Theresa Inst. of Engg. & Tech.,  
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# Mother Theresa Institute of Engineering and Technology

(Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu)

Melumoi (Post), Palamaner-517408, Chittoor Dist., A.P.

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## Certificate

This is to Certify that Mr./Ms. **A SADASHIVA** Reg, No. **15HR1A0301** Dept. of Mechanical Engineering has successfully completed a course in "**CNC PROGRAMMING**", conducted by the department of Mechanical Engineering, MTIET, Palamaner from 12<sup>th</sup> December 2016 to 17<sup>th</sup> December 2016 and has obtained **A** grade.

*D. Ravindra Naik*

**CO-ORDINATOR**

*D. Sree*

**HOD**

*[Signature]*

**PRINCIPAL**



# Mother Theresa Institute of Engineering and Technology

(Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu)

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## Certificate

This is to Certify that Mr./Ms. **ALLA REDDISEKHAR REDDY** Reg, No. **15HR1A0302** Dept. of Mechanical Engineering has successfully completed a course in "CNC PROGRAMMING", conducted by the department of Mechanical Engineering, MTIET, Palamaner from 12<sup>th</sup> December 2016 to 17<sup>th</sup> December 2016 and has obtained A grade.

*D. Ravindra Naik*

**CO-ORDINATOR**

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**HOD**

*[Signature]*

**PRINCIPAL**