



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 Website: www.mtieat.com)

[COLLEGE CODE: HR]

DEPARTMENT OF MECHANICAL ENGINEERING

Place: Palamaner,

Date: 08.12.2017

To
The Principal,
MTIET,
Palamaner.

Sub: Organizing Value Added Course for IV B.TECH students titled
“PRO ENGINEER” (PRO E) - 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, “**PRO ENGINEER**” (PRO E) for the IV B.Tech students during the inter semester break with **minimum duration of 30 hours**. The Program will be conducted from 11.12.2017 to 16.12.2017.

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

Please consider with prior hierarchy.

Thanking you,

D. S. Sree
HOD 08/12/17

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-03

Place: Palamaner,

Date: 08.12.2017.

C I R C U L A R

This is here by informed to all the IV B.Tech students that the Department is very glad to organize a Value Added Course to improve the skills on “**PRO ENGINEER**” (**PRO E**) during the period of inter semester break that is from 11-12-2017 to 16-12-2017, with minimum duration of 30 hours.

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

D. S. L. S.
HOD 08/12/17

Circulation to:

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

Mechanical Engineering
Mother Theresa Inst. of Engg. & Tech.,
PALAMANER - 517 408.



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[COLLEGE CODE: HR]

DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE: PRO E
COURSE SYLLABUS : : AY 2017-18

* * * * *

Duration: 30 Hours

UNIT I

6 hours

Pro/Engineer concepts, Using the Pro/Engineer interface, Creating sketcher geometry, Creating extrudes, revolves, and ribs.

UNIT II

6 hours

Selecting and editing, Creating datum features, Utilizing internal sketches and embedded datums, Creating sweeps and blends.

UNIT III

6 hours

Creating holes and shells, Creating rounds, chamfers and Drafts, Variable section sweeps, Helical sweeps and Swept blends, Creating patterns, Group, copy, and mirror tools.

UNIT IV

6 hours

Measuring and inspecting models, Advanced reference management, Relations and parameters Layers, Family tables & UDF, Assembling with constraints.

UNIT V

6 hours

Exploding assemblies, Creating surface feature, Editing surface features in Pro/Engineer, Creating drawing view, Creating drawing details, Creating and using assembly structure and skeletons.

CO-ORDINATOR

HOD/ME

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DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED COURSE:: PRO E(1703VAC03)

STUDENTS REGISTRATION FORM

Academic Year 2017-18

S.NO.	REGD. NO.	NAME OF THE STUDENT	SIGNATURE
1	14HR1A0301	AKULA GOWTHAM	Akula Gowtham
2	14HR1A0302	A YUVA RANI	A. Yuva Rani
3	14HR1A0303	B KARTHEEK	B. Kartheek
4	14HR1A0304	BYRUKURI GANGADHAR SAI MOHITH	B. Gangadhara Sai Mohith
5	14HR1A0305	C DHANARAJ	C. Dhanaraj
6	14HR1A0306	C MANJUNATH	Manjunath
7	14HR1A0307	CHANAKANTI ARAVIND	C. Aravind
8	14HR1A0308	CHEELAM MANI	C. Mani
9	14HR1A0309	C SATHEESH	C. Satheesh
10	14HR1A0310	D ATHIQ	D. Athiq
11	14HR1A0311	DORAGARI MANOJ	D. Manoj
12	14HR1A0312	GANDHUDI LAKSHMI NARAYANA REDDY	G. Lakshmi Narayana Reddy
13	14HR1A0313	GURRANNAGARI RAVI	G. Ravi
14	14HR1A0314	J UDAYNATH	J. Udaynath
15	14HR1A0315	JALE REVANTH KUMAR	Jale Revanth Kumar
16	14HR1A0316	K LAKSHMI PRASAD	K. Lakshmi Prasad
17	14HR1A0317	KOKA BHARGAV	K. Bhargav
18	14HR1A0318	KONDURU HARSHAVARDHAN	K. Harshavardhan
19	14HR1A0319	K SIVASANKAR REDDY	K. Sivasankar Reddy
20	14HR1A0321	KAKI SUBRAMANYAM	K. Subramanyam
21	14HR1A0322	KUKATI NARESH	K. Naresh
22	14HR1A0323	KUMMARAPALLI UDAYKUMAR	K. Uday Kumar
23	14HR1A0324	LINGAM THULASI KUMAR	L. Thulasi Kumar
24	14HR1A0325	M D IDRISH	M. D. Idrish

25	14HR1A0326	M LITHEESH KUMAR	M. Lithesh Kumar
26	14HR1A0327	M SURESH	Suresh M.
27	14HR1A0328	MADAVALI HEMANTH KUMAR	M. Hemanth Kumar
28	14HR1A0329	MALLAPPAGARI MOHAN BABU	M. MOHAN BABU
29	14HR1A0330	MASANDRAM NAGARAJAGARI LOKESH BABU	M. Lokesh Babu
30	14HR1A0331	MUDDAM VENUGOPAL REDDY	M. Venkatesh Reddy
31	14HR1A0332	MURALIGARI KIRAN	M. Kiran
32	14HR1A0333	N ANJIKUMAR	N. Anjith Kumar
33	14HR1A0334	N JYOTHENDRA	N. Jyothendra
34	14HR1A0335	N KUMAR	N. KUMAR
35	14HR1A0337	NARAYANAGARI YOGESH KUMAR	N. Yogesh Kumar
36	14HR1A0339	P REVANTH KUMAR	P. Revanth Kumar
37	14HR1A0340	P VENKATESH	P. Venkatesh
38	14HR1A0341	PAGADALA NARENDRA	P. Narendrab
39	14HR1A0342	PATAN MAHAMMAD KHAN	P. MAHAMMAD KHAN
40	14HR1A0343	PC VENUGOPAL	P. V. Venugopal
41	14HR1A0344	R D YOGESH	R. D. Yogesh
42	14HR1A0345	R ROOP SRINIVAS	R. ROOP SRINIVAS
43	14HR1A0346	S ADAM	S. Adam
44	14HR1A0348	S ANILKUMAR	S. Anil Kumar
45	14HR1A0349	S H MD IDREES	S. H. MD IDREES
46	14HR1A0350	S JAKEER	S. Jakeer
47	14HR1A0351	S JUBER BASHA	S. JUBER BASHA
48	14HR1A0352	S KARTHIK	S. Karthik
49	14HR1A0353	S MASOOD	S. Masood
50	14HR1A0354	S MAHESH	MAHESH S
51	14HR1A0356	SIVASARAM SURESH	S. Suresh
52	14HR1A0358	V HEMANTH KUMAR	V. hemanth kumar
53	14HR1A0359	V SHARATH KUMAR	V. Sharath
54	14HR1A0360	VINOD KUMAR K	Vinod Kumar K
55	12HR1A0311	G. NAVEEN KUMAR	G. Naveen Kumar
56	13HR1A0341	S G SRUJITH	G. Srujith
57	15HR5A0301	ASADI GANGIREDDY	A. Gangire Reddy
58	15HR5A0302	CHEDALLA GANESH	C. GANESH

59	15HR5A0303	GORLAGUNTA PEDARAYUDU	G. Pedarayudu
60	15HR5A0304	KARAMALA SATHEESH KUMAR	K. Satheesh Kumar
61	15HR5A0305	MARIGANDLA NARASIMHA MOHITH MURTHY	M. Narasimha Mohith
62	15HR5A0306	M LOKESH	M. Lokesh.
63	15HR5A0307	M SIVASANTHOSH	M. Siva Santhosh
64	15HR5A0308	S BHUVANACHANDRA	S. bhuvanachandra
65	15HR5A0309	S SAJEED AHMAD	AHmad
66	13HR1A0345	S SUHAIL	S. Suhail
67	14W51A0317	OLIPI KIRAN KUMAR	O. Kiran Kumar
68	12HR5A0301	B BALAJI	BALAJI

[Signature]
16/12/17

CO-ORDINATOR

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Coordinator

[Signature]
HOD 16/12/17
HEAD OF THE DEPT.
Mechanical Engineering
Mother Theresa Inst. of Engg. & Tech.,
PALAMANER - 517 400.



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DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED COURSE:: PRO E (1703VAC03)
IV B.TECH, COURSE SCHEDULE ::
Academic year 2017-2018

* * * * *

S.NO.	DAY(S)	DATE	Duration	TIME	TOPIC(S)	EXPERT DETAILS
1	DAY 1	11-12-17	30 mins	09:30-10:00	Inauguration	P DURGA PRASAD
2			1 hour	10:00-11:00	Pro E concepts using the Pro E interface	
3			2 hours	11:00-01:00	Creating sketcher geometry	
4			2 hours 30 mins	02:00-04:30	Creating extrudes, revolves, and ribs	
5	DAY 2	12-12-17	30 mins	09:30-10:00	Selecting and editing	P DURGA PRASAD
6			1 hour	10:00-11:00	Creating datum features, Utilizing internal sketches and embedded datums	
7			2 hours	11:00-01:00	Creating sweeps and blends	
8			2 hours 30 mins	02:00-04:30	Creating holes and shells, Creating rounds, chamfers and Drafts	
9	DAY 3	13-12-17	30 mins	09:30-10:00	Variable section sweeps, Helical sweeps and Swept blends	SATHISH KUMAR V S
10			1 hour	10:00-11:00	Creating patterns	
11			2 hours	11:00-01:00	Group, copy, and mirror tools, Measuring and inspecting models	
12			2 hours 30 mins	02:00-04:30	Advanced reference management, Relations and parameters	
13	DAY 4	14-12-17	1 hour 30 mins	09:30-11:00	Layers, Family tables & UDF	SATHISH KUMAR V S
14			2 hours	11:00-01:00	Assembling with constraints	
15			2 hour 30 mins	02:00-04:30	Exploding assemblies	
16	DAY 5	15-12-17	1 hour 30 mins	09:30-11:00	Creating surface features	K BAVAJI
17			2 hours	11:00-01:00	Editing surface features in Pro/ENGINEER	
18			2 hours 30 mins	02:00-04:30	Creating drawing views	
19				02:00-04:30	Creating drawing details	
20	DAY 6	16-12-17	1 hour 30 mins	09:30-11:00	Creating and using assembly structure and skeletons	K BAVAJI
21			2 hours	11:00-01:00	PRACTICE	
22			1 hour	02:00-03:00	CONDUCTION OF EXAM	
23			1 hour 30 mins	03:00-04:00	DISTRIBUTION OF CERTIFICATES	

Total Duration of Course: 36 hours.

[Signature]
CO-ORDINATOR

[Signature]
HOD/ME 16/12/2017

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DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED COURSE:: PRO E (1703VAC03)

QUESTION PAPER
ACADEMIC YEAR 2017-2018

ANSWER ALL THE FOLLOWING QUESTIONS EACH CARRY EQUAL MARKS

15X2=30MARKS



1. What is new name of Pro/Engineer (Pro/E) & Latest version?
2. Pro/E is product of which company?
3. What are the file extensions given to sketches, parts, assemblies, drawings?
4. What is function of trail.txt file in Creo Elements (Pro/E)?
5. What is use of config.pro file in Pro/E?
6. What are Mapkeys?
7. How many Geometric tolerance symbols are there in Pro/E and which are they?.
8. What is Drawing.dtl file??
9. What is the difference between object reference and geometric associativity?
10. How do you change dimensions of a feature?
11. Define “Parametric Feature Based Modeling”?
12. Name six common assumptions the sketcher will make.
13. What is the difference between File — > Erase and File — > Delete?
14. What is the difference between File — > Save and File — > Backup?
15. What is the meaning of “store back”?


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DEPARTMENT OF MECHANICAL ENGINEERING VALUE ADDED COURSE:: PRO E(1703VAC03)

IV B.TECH, STUDENT EVALUATION FORM

Academic Year 2017-18

S.NO.	REGD. NO.	NAME OF THE STUDENT	GRADE
1	14HR1A0301	AKULA GOWTHAM	A
2	14HR1A0302	A YUVA RANI	A
3	14HR1A0303	B KARTHEEK	A
4	14HR1A0304	BYRUKURI GANGADHAR SAI MOHITH	B
5	14HR1A0305	C DHANARAJ	A
6	14HR1A0306	C MANJUNATH	A
7	14HR1A0307	CHANAKANTI ARAVIND	A
8	14HR1A0308	CHEELAM MANI	A
9	14HR1A0309	C SATHEESH	A
10	14HR1A0310	D ATHIQ	C
11	14HR1A0311	DORAGARI MANOJ	A
12	14HR1A0312	GANDHUDI LAKSHMI NARAYANA REDDY	B
13	14HR1A0313	GURRANAGARI RAVI	B
14	14HR1A0314	J UDAYNATH	A
15	14HR1A0315	JALE REVANTH KUMAR	A
16	14HR1A0316	K LAKSHMI PRASAD	A
17	14HR1A0317	KOKA BHARGAV	D
18	14HR1A0318	KONDURU HARSHAVARDHAN	B
19	14HR1A0319	K SIVASANKAR REDDY	B
20	14HR1A0321	KAKI SUBRAMANYAM	A
21	14HR1A0322	KUKATI NARESH	A
22	14HR1A0323	KUMMARAPALLI UDAYKUMAR	A
23	14HR1A0324	LINGAM THULASI KUMAR	C
24	14HR1A0325	M D IDRISH	A
25	14HR1A0326	M LITHEESH KUMAR	C
26	14HR1A0327	M SURESH	B
27	14HR1A0328	MADAVALI HEMANTH KUMAR	B

28	14HR1A0329	MALLAPPAGARI MOHAN BABU	A
29	14HR1A0330	MASANDRAM NAGARAJAGARI LOKESH BABU	D
30	14HR1A0331	MUDDAM VENUGOPAL REDDY	B
31	14HR1A0332	MURALIGARI KIRAN	B
32	14HR1A0333	N ANJIKUMAR	B
33	14HR1A0334	N JYOTHENDRA	C
34	14HR1A0335	N KUMAR	C
35	14HR1A0337	NARAYANAGARI YOGESH KUMAR	A
36	14HR1A0339	P REVANTH KUMAR	A
37	14HR1A0340	P VENKATESH	A
38	14HR1A0341	PAGADALA NARENDRA	A
39	14HR1A0342	PATAN MAHAMMAD KHAN	A
40	14HR1A0343	PC VENUGOPAL	B
41	14HR1A0344	R D YOGESH	A
42	14HR1A0345	R ROOP SRINIVAS	A
43	14HR1A0346	S ADAM	A
44	14HR1A0348	S ANILKUMAR	C
45	14HR1A0349	S H MD IDREES	C
46	14HR1A0350	S JAKEER	A
47	14HR1A0351	S JUBER BASHA	A
48	14HR1A0352	S KARTHIK	B
49	14HR1A0353	S MASOOD	A
50	14HR1A0354	S MAHESH	D
51	14HR1A0356	SIVASARAM SURESH	B
52	14HR1A0358	V HEMANTH KUMAR	B
53	14HR1A0359	V SHARATH KUMAR	C
54	14HR1A0360	VINOD KUMAR K	C
55	12HR1A0311	G. NAVEEN KUMAR	C
56	13HR1A0341	S G SRUJITH	A
57	15HR5A0301	ASADI GANGIREDDY	A
58	15HR5A0302	CHEDALLA GANESH	A
59	15HR5A0303	GORLAGUNTA PEDARAYUDU	A
60	15HR5A0304	KARAMALA SATHEESH KUMAR	A
61	15HR5A0305	MARIGANDLA NARASIMHA MOHITH MURTHY	A
62	15HR5A0306	M LOKESH	A
63	15HR5A0307	M SIVASANTHOSH	A

64	15HR5A0308	S BHUVANACHANDRA	A
65	15HR5A0309	S SAJEED AHMAD	A
66	13HR1A0345	S SUHAIL	A
67	14W51A0317	OLUPI KIRAN KUMAR	A
68	12HR5A0301	B BALAJI	A

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


16/12/2017
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DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED COURSE:: PRO E(1703VAC03)

Academic Year 2017-18

Feedback Form

Name of the Staff: 1. P.DURGA PRASAD

2.SATHISH KUMAR V S

3.K.BAVAJI

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: *Teaching is good.*

Jyoti Ravi
Signature (Optional) 10/12/2017



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DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED COURSE:: PRO E(1703VAC03)
Academic Year 2017-18

Feedback Form

Name of the Staff: 1. P.DURGA PRASAD

2.SATHISH KUMAR V S

3.K.BAVAJI

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: Good teaching

A. Gowtham 16/12/2017
Signature (Optional)



DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED COURSE:: PRO E(1703VAC03)
Academic Year 2017-18

* * * * *

Feedback Analysis

Number of students submitted Feedback Forms: 68

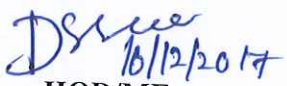
Total number of Points: 340

S.No	Description	Excellent	Very Good	Good	Fair	Poor	%
1	Organization of Subject in Sequence	50	14	04	00	0	93.52941
2	Clarity and audibility of Speech	48	12	05	0	0	93.52941
3	Method of Explanation with proper Illustrations & Examples	51	08	07	02	0	91.76471
4	Way of Raising doubts & Effective clarification of doubts	52	12	04	00	0	94.11765
5	Relevance of the lecture to the topic announced	49	11	05	03	0	91.17647
6	Overall Performance	55	10	04	00	0	94.70588
Total(Average)							93.63 %

- Total Points ≥ 90 → Excellent (5 Points)
Total Points ≥ 80 → Very Good (4 Points)
Total Points ≥ 70 → Good (3 Points)
Total Points ≥ 50 → Fair (2 Points)
Total Points ≤ 49 → Poor (1 Points)

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


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PALAMANER - 517 408.



DEPARTMENT OF MECHANICAL ENGINEERING

Report-On

VALUE ADDED COURSE:: PRO E(1703VAC03)

Academic Year 2017-18

* * * * *

The Department of Mechanical engineering has conducted a value added course on PRO E organized for students of IV Year Mechanical Engineering students during 11th Dec to 16th Dec 2017 to enhance the student knowledge to meet the future industrial demand. The faculties has given mix of theory and practical knowledge on PRO E.

This program was organized by Dr.D.Sreenivasulu Reddy, Head of the department with the co-ordination of P.Durga Prasad, Assistant Professor, ME Department, Satish Kumar V,S, Assistant Professor, ME Department, K.Bavaji, Associate Professor, ME Department.

The value added course was organized for six days effective from 11.12.2017 to 16.12.2017 with a total duration of 36 hrs. Sixty eight students from fourth 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 NET lab.

TOPICS COVERED

UNIT I

Pro/Engineer concepts, Using the Pro/Engineer interface, Creating sketcher geometry, Creating extrudes, revolves, and ribs.

UNIT II

Selecting and editing, Creating datum features, Utilizing internal sketches and embedded datums, Creating sweeps and blends.

UNIT III

Creating holes and shells, Creating rounds, chamfers and Drafts, Variable section sweeps, Helical sweeps and Swept blends, Creating patterns, Group, copy, and mirror tools.

UNIT IV

Measuring and inspecting models, Advanced reference management, Relations and parameters Layers, Family tables & UDF, Assembling with constraints.

UNIT V

Exploding assemblies, Creating surface feature, Editing surface features in Pro/Engineer, Creating drawing view, Creating drawing details, Creating and using assembly structure and skeletons.

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 Sketch Parts in 2D and 3D environment.
- Students were able to Create complex parts by creating and modifying multiple bodies.



At the time of inauguration

[Handwritten Signature]
CO-ORDINATOR

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.

Website: www.mtitech.edu.in email: mtieat@gmail.com ☎ 08579 268589



A Certificate

This is to Certify that Mr./Ms. **AKULA GOWTHAM** Reg, No. 14HR1A0301 Dept. of Mechanical Engineering has successfully completed a course in "PRO E", conducted by the department of Mechanical Engineering, MTIET, Palamaner from 11th December 2017 to 16th December 2017 and has obtained A grade.

CO-ORDINATOR

HOD

PRINCIPAL

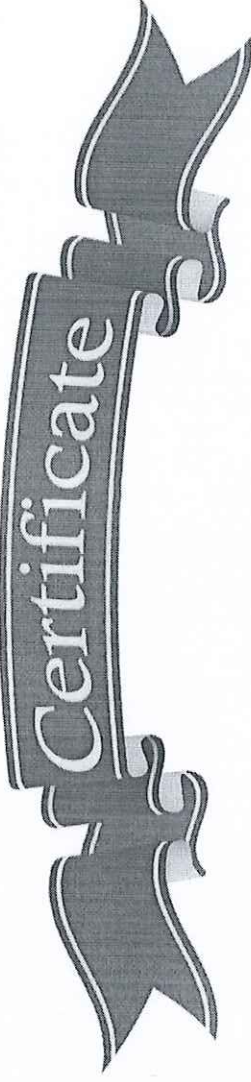
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Melumoi (Post), Palamaner-517408, Chittoor Dist., A.P.

Website: www.mtitech.edu.in email: mtieat@gmail.com ☎ 08579 268589



This is to Certify that Mr./Ms. A YUVA RANI Reg. No. 14HR1A0302 Dept. of Mechanical Engineering has successfully completed a course in "PRO E", conducted by the department of Mechanical Engineering, MTIET, Palamaner from 11th December 2017 to 16th December 2017 and has obtained A grade.

CO-ORDINATOR

HOD

PRINCIPAL