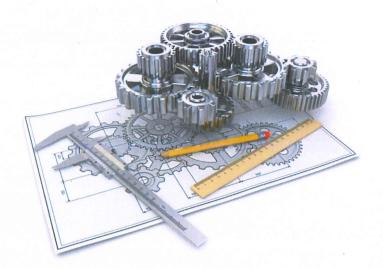


Certification based Value Added Course



GEOMETRIC DIMENSIONING & TOLERANCING

30.03.2021 to 15.04.2021

Taget Group
II and III B.Tech(ME) students

Venue CAM Lab, Room

<u>Timings</u> 9:00 - 11:00 AM

Resource Person(s)

Dr.K.C.Varaprasad
Professor & Head, Dept. of
ME. SVEC

Ms.P.Thejasree
Asst. Professor
Dept. of ME, SVEC

Organized by
DEPARTMENT OF MECHANICAL ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet, Tirupati - 517 102.



(AUTONOMOUS) Sree Sainath Nagar, A. Rangampet, Tirupati - 517 102.

Certification based Value Added Course on

GEOMETRIC DIMENSIONING & TOLERANCING

30.03.2021 to 15.04.2021

Organized by DEPARTMENT OF MECHANICAL ENGINEERING

Resource Person(s)

Dr.K.C.Varaprasad

Professor & Head, Dept. of ME, SVEC

Ms.P.Thejasree

Asst. Professor Dept. of ME, SVEC

Taget Group

II and III B.Tech (ME) students

Venue

CAM Lab, Room NO.2503

Timings

9:00 - 11:00 AM

DE K.C. VARAPRASAD

Professor & Head

Dept. of Mechanical Engineering
Sree Vidyanikethan Engineering College



(AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517102

Department: ME | Date: 30th March to 15th April, 2021

A Value-Added Course on

"GEOMETRIC DIMENSIONING & TOLERANCING"

30.03.2021 to 15.04.2021

Course Trainer(s) :

Dr.K.C.Varaprasad, Professor & Head, Dept of ME

Ms.P.Thejasree, Asst. Professor & Head, Dept of ME

Target Group

II & III B.Tech(ME) Students

Learning and Outcomes of the Course:-

- Able to understand the basic concepts of GD&T.
- Able to understand how to apply GD&T to a part drawing and Spot key features on a drawing.
- Able to explore the significance of GD&T over the traditional method.
- Able to understand the datum target and its applications.
- Able to acquire hands-on practice on what learned through thought-provoking exercises with multiple problem sets in the practice session.
- Understand that datums determine alignment.
- Understand that tolerance zone values are diameters, widths, or thicknesses.
- Able to recognize the most common GD&T characteristics.

Dr. K. O. VARAPRASAD

Professor & Head

Dept. of Mechanical Engineering

Sree Vidyanikethan Engineering College

TIRUPATI - 517 102

GEOMETRIC DIMENSIONING & TOLERANCING



INTRODUCTION TO GD&T

Reasons to use GD&T GD&T symbols Conventional v/s Advanced Tolerancing Methods

Use of Basic Dimensions CONCEPTS OF GD&T

Features of Size Actual Envelopes (Related and Unrelated) Material Conditions of Features of Size

Individual Features of Size Inner and Outer Boundary

DATUMS INTRODUCTORY CONCEPTS

Degrees of Freedom Datum Feature Simulators Datum Precedence Multiple Datum Features Datum Feature Selection Datum Targets

FORM TÖLERANCES

Flatness
Straightness
Circularity
Cylindricity
Tolerance zones, Application and Inspection
methodology for Form tolerances

ORIENTATION TOLERANCES

Perpendicularity
Parallelism
Angularity
Tolerance zones, Application and Inspection
methodology for Form tolerances
PROFILE TOLERANCES

Line and Surface Profile Profile as General Requirement Unequally Disposed Profile tolerances Unilateral Profile tolerance

Tolerance zones

LOCATION TOLERANCES

Position, Symmetry and Concentricity Composite Position tolerancing Projected Tolerance zone Tolerance zones, Application and Inspection methodology

INTRGENERAL DIMENSIONING

Definitions required for certification exam.
Fundamental rules
Measurement units
Types of dimensioning
Application of dimensions
Dimensioning features
Location of features

GENERAL TOLERANCING AND RELATED PRINCIPLES

Application of tolerances
Tolerance expression
Interpretation of limits
Single Limits
Tolerance accumulation
Limits of size
Relationship between features
Applicability of RFS, MMC, and LMC
Geometric application to screw threads, gears, and solines

SYMBOLOGY

Fourteen geometric characteristic symbols All symbols of GD&T language DATUM REFERENCING

Definitions
Datum feature identification

Datum feature controls TOLERANCES OF LOCATION

Position tolerancing
Feature Pattern location
Bi-directional positional tolerancing of features
Non-circular features
Coaxiality controls
Concentricity
Positional Tolerancing for symmetrical features
Symmetry tolerancing
Spherical features
TOLERANCES OF FORM, PROFILE.

TOLERANCES OF FORM, PROFILE, ORIENTATION, AND RUNOUT

Form tolerances Straightness, Flatness, Circularity, Cylindricity Orientation Angularity, Parallelism, Perpendicularity Profile Line, Surface



Dr.K.C.Varaprasad & Ms. P.Thejasree Dr. K.C. VARAPRASAD
Professor & Head
Dept. of Mechanical Engineering
Sree Vidyanikethan Engineering College
TIRUPATI - 517 102

A Value-Added Course on

"GEOMETRIC DIMENSIONING & TOLERANCING"

30.03.2021 to 15.04.2021

Detailed Day Wise Syllabus

Chapter No	Торіс	No. of Hours	
Chapter 1	Introduction to GD&T		
	Reasons to use GD&T	-	
	GD&T symbols		
	Conventional v/s Advanced Tolerancing Methods	4	
	Use of Basic Dimensions	-	
Chapter 2	Concepts of GD&T		
	Features of Size		
	Actual Envelopes (Related and Unrelated)		
	Material Conditions of Features of Size	4	
	Individual Features of Size		
	Inner and Outer Boundary		
Chapter 3	Datums Introductory concepts		
	Degrees of Freedom		
	Datum Feature Simulators		
	Datum Precedence		
	Multiple Datum Features	4	
	Datum Feature Selection		
	Datum Targets		
Chapter 4	Form Tolerances		
	Flatness		
	Straightness		
	Circularity	2	
	Cylindricity		
	Tolerance zones, Application and Inspection methodology for Form tolerance		
Chapter 5	Orientation Tolerances		
	Perpendicularity		
	Parallelism		
	Angularity	2	
	Tolerance zones, Application and Inspection methodology for Form tolerance		
Chapter 6	Profile Tolerances		
	Line and Surface Profile		
	Profile as General Requirement		
	Unequally Disposed Profile tolerances	2	
	Unilateral Profile tolerance		
	Tolerance zones		
	Location Tolerances		
	Position, Symmetry and Concentricity		
	Composite Position tolerancing		
	Projected Tolerance zone	2	
	Tolerance zones, Application and Inspection methodology		

Dr. K.C. VARAPRASAD

Rrofessor & Head

Dept. of Mechanical Engineering

Sree Vidyanikethan Engineering College

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Chapter 8	IntrGeneral Dimensioning		
	Definitions required for certification exam.		
	Fundamental rules		
	Measurement units	2	
	Types of dimensioning	2	
	Application of dimensions		
	Dimensioning features		
	Location of features		
Chapter 9	General tolerancing and related principles		
	Application of tolerances		
	Tolerance expression		
	Interpretation of limits		
	Single Limits	2	
	Tolerance accumulation	2	
	Limits of size		
	Relationship between features		
	Applicability of RFS, MMC, and LMC		
	Geometric application to screw threads, gears, and splines		
Chapter 10	Symbology		
	Fourteen geometric characteristic symbols	2	
	All symbols of GD&T language		
Chapter 11	Datum referencing		
	Definitions		
	Datum feature identification		
	Datum feature controls		
	Tolerances of location		
	Position tolerancing		
	Feature Pattern location	2	
	Bi-directional positional tolerancing of features	2	
	Non-circular features		
	Coaxiality controls		
	Concentricity		
	Positional Tolerancing for symmetrical features		
	Symmetry tolerancing		
	Spherical features		
Chapter 12	Tolerances of form, profile, orientation, and runout		
	Form tolerances Straightness, Flatness, Circularity, Cylindricity		
	Orientation Angularity, Parallelism, Perpendicularity	2	
	Profile Line, Surface		
	Runout Circular, Total		
	Total duration of the Course in Hours	30	

No. of Students attended: 30

Dr. K.C. VARAPRASAD

Professor & Head

Dept. of Mechanical Engineering

Sree Vidyanikethan Engineering College

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Value Added Course Particulars - 2020- 2021

Name of the Department	Name of the Value Added Course	Course Code	Start and End Dates	Name of the Resource Person and Affiliation	Year of Offering	No. of Students enrolled for the course	No. of students completed the course
Mechanical Enigineering	Geometric Dimensioning & Tolerancing		30.03.2021 to 15.04.2021	Dr.K.C.Varaprasad & Ms.P.Thejasree	2020	30	30

List of Students Participated

S.No.	Roll No.	Name of the Student	Class and Semester		
1	19121A0323	C.GANESH	II B.Tech II Semester		
2	19121A0327	D.LOKESH	II B.Tech II Semester		
3	19121A0332	D.SRINIVAS	II B.Tech II Semester		
4	19121A0337	E.UMASANKAR	II B.Tech II Semester		
5	19121A0342	G.MARUTHI	II B.Tech II Semester		
6	19121A0354	K.ESWAR	II B.Tech II Semester		
7	19121A0367	K.V.SANDEEO	II B.Tech II Semester		
8	19121A0369	K.KARTHIK	II B.Tech II Semester		
9	19121A0385	M.NIZAMUDDIN	II B.Tech II Semester		
10	19121A03D8	S.TARAKANANDA	II B.Tech II Semester		
11	19121A03E3	V.DINESH RAJA	II B.Tech II Semester		
12	19121A03E8	Y.SATHISH KUMAR	II B.Tech II Semester		
13	20125A0304	C.SAI KUMAR REDDY	II B.Tech II Semester		
14	20125A0308	H.MOHAN KULLAI SWAMY	II B.Tech II Semester		
15	20125A0318	P.VENKATA SURENDRA	II B.Tech II Semester		
16	20125A0320	SK.M.SUBHANI	II B.Tech II Semester		
17	20125A0331	P.MADHU BHARATH	II B.Tech II Semester		
18	18121A0320	B.UDAY KIRAN	III B.Tech II Semester		
19	18121A0351	G.FAREED	III B.Tech II Semester		
20	18121A0352	G.SARAYU	III B.Tech II Semester		
21	18121A0373	K.KEERTHANA	III B.Tech II Semester		
22	18121A0387	M.ROSHAN SAI	III B.Tech II Semester		
23	18121A03A7	P.NARESH BABU	III B.Tech II Semester		
24	18121A03B0	P.BALAJI	III B.Tech II Semester		
25	18121A03B1	P.S.K.D.MANIKYALARAO	III B.Tech II Semester		
26	18121A03C7	SHAIK MOHAMMED JAVID	III B.Tech II Semester		
. 27	18121A03E3	V.SHIVA PRASAD RAO	III B.Tech II Semester		
28	19125A0322	MOHAMMED SAIFULLA	III B.Tech II Semester		
29	19125A0326	M.KARTHHIK NAIK	III B.Tech II Semester		
30	19125A0335	P.CHANDRA SEKHAR REDDY	III B.Tech II Semester		

Dr. K.C. VARAPRASAD
Professor & Head
Dept. of Mechanical Engineering
Sree Vidyanikethan Engineering College
TIRUPATI - 517, 102



(AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517102

Department: ME | Date: 30th March to 15th April, 2021

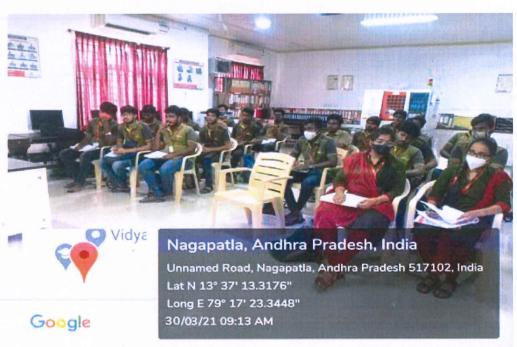
A Value Added Course on

"GEOMETRIC DIMENSIONING & TOLERANCING" 30.03.2021 to 15.04.2021

About the course:

Geometric Dimensioning and Tolerancing or GD&T is an overarching symbolic language used in defining the geometry of mechanical parts. It comprises dimensions, symbols, definitions, rules, and conventions that illustrate the functional requirements of each feature of the design model. The Course starts with explaining the importance of an engineering drawing and explores the need for GD&T that has arisen and then a deep dive into the concepts of GD&T. Precisely, GD & T is the exact language that helps mechanical engineers, fabricators, and designers to communicate regarding the design model. The course will help students to understand the fundamentals of the GD&T language. It will guide them to comprehend Geometric Tolerancing and will assist them in becoming certified GD&T associates. In this context, department of Mechanical Engineering conducted Value Added Course on "GEOMETRIC DIMENSIONING & TOLERANCING" from 30.03.2021 to 15.04.2021

DAY 1:





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DAY 2:



Topic Discussed:

Reasons to use GD&T GD&T symbols Conventional v/s Advanced Tolerancing Methods Use of Basic Dimensions

Learning Outcomes:

Describe various uses of GD&T and basic dimensions. Key concepts related to GD&T symbols, tolerancing methods.

Dr. K.C. VARAPRASAD

Professor & Head

Professor & Head

Dept. of Mechanical Engineering College

Too Vidyanikethan Engineering College

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DAY 3:



Topic Discussed:

Features of Size Actual Envelopes (Related and Unrelated) Material Conditions of Features of Size Individual Features of Size Inner and Outer Boundary

Learning Outcomes:

Describe various size related features, Actual Envelopes and respective material conditions to make the students familiar with the size feature concept.

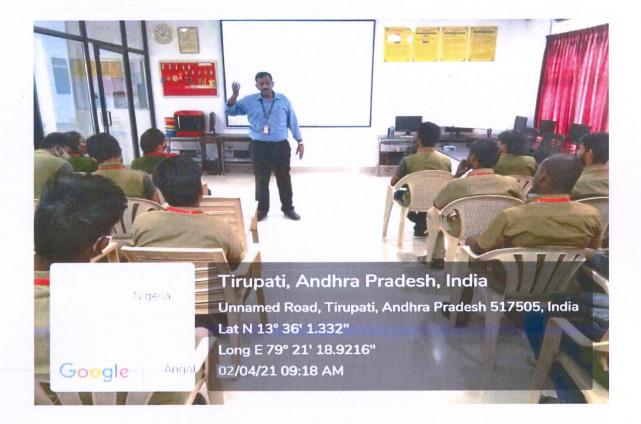
> Professor & Head hanical Engineering ethan Engineering College



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DAY 4:



Topic Discussed:

Degrees of Freedom
Datum Feature Simulators
Datum Precedence
Multiple Datum Features
Datum Feature Selection
Datum Targets

Learning Outcomes:

To impart fundamental knowledge on the concepts of Degrees of Freedom and Datum features.

Dr. K.C. VARAPRASAD

Professor & Head

Dept. of Mechanical Engineering College

Sree Vidyanikethan Engineering 102



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DAY 5:



Topic Discussed:

Flatness

Straightness

Circularity

Cylindricity

Tolerance zones, Application and Inspection methodology for Form tolerances

Learning Outcomes:

To demonstrate the students about various features such as Flatness, Straightness, Circularity, Cylindricity and to introduce about the tolerance zones, applications and inspection techniques for Form tolerances.

Professor & Head
Professor & Engineering



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DAY 6:



Topic Discussed:

Perpendicularity

Parallelism

Angularity

Tolerance zones, Application and Inspection methodology for Form tolerances

Learning Outcomes:

To provide basic knowledge on Perpendicularity, Parallelism, Angularity and in depth knowledge on Tolerance zones to the participants.

Dr. H.C. VARAPRASAD

Arofessor & Head

Arofessor & Head

Arofessor & Head

Dept. of Mechanical Engineering

Dept. of Mechanical Engineering College

Arofessor & Head

Arofessor & Head

Arofessor & Head

Dept. of Mechanical Engineering

Dept. of Mechanical Engineer



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Sree Sainath Nagar, Tirupati - 517102

DAY 7:



Topic Discussed:

Line and Surface Profile Profile as General Requirement Unequally Disposed Profile tolerances Unilateral Profile tolerance Tolerance zones

Learning Outcomes:

To provide basic knowledge regarding the general requirements of profiles and the related tolerances.

Dr. K.C. WARAPRASAD

Professor & Head

Professor & Head

Dept. of Mechanical Engineering College

Sree Vidyanikethan Engineering College

TIRUPATI - 517



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DAY 8:



Topic Discussed:

Position, Symmetry and Concentricity Composite Position tolerancing Projected Tolerance zone Tolerance zones, Application and Inspection methodology

Learning Outcomes:

To facilitate the students about the concepts of Position, Symmetry and Concentricity, Composite Position tolerancing and Projected Tolerance zone

Dr. K.C. VAKAP Head

Professor & Head

Dept. of Mechanical Engineering College

Sree Vidyanikethan Engineering College

TIRUPATI - 517 102



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Sree Sainath Nagar, Tirupati - 517102

DAY 9:



Topic Discussed:

Definitions required for certification exam. Fundamental rules
Measurement units
Types of dimensioning
Application of dimensions
Dimensioning features
Location of features

Learning Outcomes:

To provide the targeted group, an awareness on the certification exam and the related concepts.

Dr. K.C. VARAPRASAD

Professor & Head

Dept. of Mechanical Engineering

Dept. of Mechanical Engineering College

Sree Vidyanikethan Engineering College

TIRUPATI - 517 102



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DAY 10:



Topic Discussed:

Application of tolerances Tolerance expression Interpretation of limits Single Limits Tolerance accumulation Limits of size Relationship between features Applicability of RFS, MMC, and LMC Geometric application to screw threads, gears, and splines

Learning Outcomes:

To discuss about applications of tolerances, Interpretation of Limits and its applicability and some specific geometric applications.

> essor & Head Dept. of Mechanical Engineering ikethan Engineering College

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DAY 11:



Topic Discussed:

Fourteen geometric characteristic symbols All symbols of GD&T language

Learning Outcomes:

To make the participants aware of all symbols of GD&T language

more



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DAY 12:



Topic Discussed:

Definitions
Datum feature identification
Datum feature controls

Learning Outcomes:

To demonstrate and discuss on datum feature identification and control procedures

Dr. K.C. VAR APRASAD

Professor & Head

Professor & Head

Dept. of Mechanical Engineering College

Sree Vidyanikethan Engineering College

TIRUPATI - 517 102



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DAY 13:



Topic Discussed:

Position tolerancing Feature Pattern location Bi-directional positional tolerancing of features Non-circular features Coaxiality controls Concentricity Positional Tolerancing for symmetrical features Symmetry tolerancing Spherical features

Learning Outcomes:

To provide basic knowledge on Position tolerancing, Non-circular features, Concentricity and Spherical features.

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DAY 14:



Topic Discussed:

Form tolerances Straightness, Flatness, Circularity, Cylindricity Orientation Angularity, Parallelism, Perpendicularity Profile Line, Surface

Learning Outcomes:

To impart the skills required in identifying features in form tolerance such as Straightness, Flatness, Circularity, Cylindricity, Orientation Angularity, Parallelism, Perpendicularity, Profile Line and Surface

Dr. K.C. VARAPRASAD

Dept. of Mechanical Engineering Sree Vidyanikethan Engineering College TIRUPATI - 517 102



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DAY 15:



Topic Discussed:

Overall content discussion, Feedback and Vote of Thanks

Learning Outcomes:

To discuss about the level of understanding through the program and for further improvements required in the program.

ssor & Head

Dept. of Mechanical Engineering Vidvanikethan Engineering College

About the resource person

Dr.K.C.Varaprasad

Dr. K.C.Varaprasad graduated in B.Tech Mechanical Engineering from Sri Krishna Devaraya University, Ananthapur, Andhra Pradesh, India in the year 1999 and Post-Graduation in M.Tech in Production Engineering from Sri Venkateswara University, Tirupati,



Andhra Pradesh, India in the year 2002. He received his Ph.D. from Jawaharlal Nehru Technological University Anantapur, Anantapuramu, Andhra Pradesh, India in the year 2011. Currently, he is working as Professor & Head, Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, Tirupati, Andhra Pradesh, India. He is the founder Head of the Department of Mechanical Engineering. He established nearly 15 state-of-art laboratories with advanced technology equipment. He has got 18 years and 8 months of teaching and industrial experience. His research area of interest includes Micromachining, 3D Printing and Industry 4.0. He is having rich teaching experience in the subjects: Manufacturing Technology and Tool Design, Computer Aided Engineering Drawing, Manufacturing Technology, Machine Drawing, Machine Tools, Engineering Metrology, Tool Design, Industrial Engineering & Management, Elements of Production Drawing, Automation in Manufacturing, CAD/CAM, Robotics, Instrumentation & Control Mechatronics, Industrial Unconventional Machining Process, Hydraulics & , Pneumatics, Non Conventional Sources of Energy, Computer Integrated Manufacturing, Engineering Mechanics, Flexible Manufacturing Systems, Computer Integrated Manufacturing, Automation in Manufacturing, Mechatronics, Computer Aided Process Planning, CNC Technology & Programming. He is a professional member in various organizations: Life Member of Indian Society for Technical Education (MISTE)., Life Member of Institution of Engineers (INDIA) (MIE), Life Member of American Society of Mechanical Engineers (ASME), Life Member of Indian Institution of Production Engineers(IIPE), Life Member of Additive Manufacturing Society of India (AMSI), Life Member of Indian Science Congress Association (ISCA) and Life Member of Indian Welding Society (IWS) He is an Editorial Board Membership of Reviewer for international journal of mechanical computational and manufacturing research and reviewer team member of American Journal of Mechanical and Materials Engineering. In his career, he performed various roles like Head of the Department (ME), NBA Coordinator, NAAC Coordinator, Research Cluster Coordinator and Skill Development Center in-charge. He has presently guiding 03 Ph.D scholars. He has published more than 39 papers in International Journals and Conferences. He organized nearly 100+ academic oriented events for the students and faculty. He has attended more than 100 Workshops, Symposiums and Seminars. He has conducted/coordinated and acted as resource person in various International or National Conferences, Workshops, Symposiums and Seminars. He has published published Book Chapters. Some of his publications are listed in digital libraries (such Xplorer, Elsevier Xplorer, Taylor & Francis, Scopus, SCI Indexed Journals, Dr. K.C VARAPRASAD

Professor & Head

Dept. of Mechanical Engineering

Sree Vidyanikethan Engineering College

TIRUPATI - 517 102

International Journal of Computer Applications in Engineering, Technology and Sciences (IJ-CA-ETS-ISSN: 0974-3596), International Journal of Engineering Research and Industrial Applications (I SSN: 0974-1518), International Journal of Mathematical Sciences and Engineering Applications (ISSN: 0973-9424), International Journal of Technology World, Malaysia, (ISSN 2180-0987), Trans Tech Publications, Switzerland, SAE International Journal of Materials and Manufacturing. He is a committed, dedicated and efficient administrator.

Dr. K.C. VARAPRASAD
Professor & Head
Post of Mechanical Engineering

Dept. of Mechanical Engineering Sree Vidyanikethan Engineering College TIRUPATI - 517 102

BIO-DATA ·

1.	Name of Teaching Staff*	P.THEJA SREE					
2.	Designation	ASSISTANT PROFESSOR					
3.	Department	MECHANICAL ENGINEERING				W AS	
4.	Date of Joining the Institution	12-06-2013			No.		
	Qualifications with Class/Grade		UG	F	PG .	Ph.D	
5.		Degree	B.Tech.	M. ⁻	Tech	pursuing	
		Class/Grade	Distinction	Disti	nction		
6.	Total Experience in Years	Teachin	g	Industry	R	Research	
0.	Total Experience in Totale	9 years		2.5 years		-	
7.	Papers Published	National			International		
	T apolo T ablionou	01			08		
8.	Papers Presented in	National			International		
	Conferences	06			12		
9.	Ph.D Guide? Give field & University	Field : Nil University			iversity : Nil		
10.	Ph.Ds/Projects Guided	PhDs: Nil	Projects at Masters Level : Nil				
11.	Books Published/IPRs/Patents	Nil					
12.	Professional Memberships	02					
13.	Consultancy Activities	Nil					
14.	Awards	01 (Best Paper award in Conference)					
15.	Grants fetched	Nil					
16.	Interaction with Professional Institutions	Nil					
Dr. K.C. VARAPRASAD P. Grown Dr. K.C. VARAPRASAD P. Grown P. Grown P. Grown P. Grown Signature of the faculty Sree Vidyanikethan Engineering College TIRUPATI - 517 102					ne faculty		



(Autonomous)

Sree Sainath Nagar, A. Rangampet, Tirupati-517102.

Certificate Of Value Added Course Completion

This is to certify that

P.NARESH BABU

Bearing roll No. 18121A03A7 of

Mechanical Engineering Department

has participated and sucessfully completed the the Add-on course on

GEOMETRIC DIMENSIONING & TOLERANCING

during 30th March to 15th April, 2020, Organized by

Department of Mechanical Engineering

SREE VIDYANIKETHAN ENGINEERING COLLEGE

Head of Department

Dr. R.C. VARAPRASAD

Principal, SVEC

Dept. of Meckanical Engineering
Sree Vidyanikethan Engineering College
TIRUPATI - 517 102