# Name :Dr. B.Satyanarayana

B.E., M.Tech., Ph.D., MASME, LMISTE

**Designation** : Professor

**Department**: Mechanical Engineering

Mail.I.D : <u>satyanarayana\_b@vnrvjiet.in</u>

Experience (in years): Teaching: 21 Research: 10

**Industrial: 04** 



### 1. Educational / Technical qualifications:

S. No.	Level (UG / PG / Ph.D.)	Year of passing	Specialization
1	BE	1994	Mechanical Engineering
2	M.Tech.	2002	Production Engineering
3	Ph.D.	2014	Machining

## 2. Teaching and Learning:

a. Teaching Interests:

Metrology, Production Technology, Metal Cutting and Tool Design, Mechanics of Solids, Operations Research, Numerical Methods, CAM, SMP, AMP and Computer Programming in 'C'.

- b. Novel Teaching & Learning Techniques adopted:
  - a) PPT and Video b) Wit and Will c) POGIL d) Seminars
- c. Involvement in curriculum updating / Design:

Involved in updating the syllabus for four subjects- SMP, MP and MP Lab

#### 3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies:
  - a) To promote work efficiency and good attitude towards work, in organizations.
  - b) Social service and playing a few games.
- 3.2 CCA/ECA Organized:
  - •Organized Telangana State Level Sports & Cultural Meet for Polytechnic Students at VNR VJIET from 19<sup>th</sup> December 2019 to 20<sup>th</sup> December 2019.
- 3.3 CCA/ECA participated:

Discipline Committee member, Sintillashunz, at VNRVJIET

#### 3.4 Counseling and Mentoring Activity:

- Conducting counseling and mentoring activities every year for Diploma Students
- Conducted class review meetings with student representatives
- 3.5. Committees involved in:

Department level: ECA/CCA, DPRC-PG

Institute Level: Member- Institute Academic committee

# 4. Conference / Workshop / Seminar / Guest Lectures:

4.1. Conducted: 05

4.2 .Attended: 25

## 5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: Nil

5.2. Articles / Chapters published in Books: Nil

5.3. Books published as single author or as editor:

S.No	Title with page nos.	Type of Book &	Publisher & ISSN/ ISBN No	Whether Peer
1	Optimization of	Authorship Text book	LAMBERT Academic	Yes
1	Controllable Turning	& both	Publishing	103
	Parameters for HSM of	Author and	West Germany	
	Inconel 718	Publisher	ISBN: 978-3-659-88251-7	
	Pg.Nos: 113			
2	Experimental	Text book	LAMBERT Academic	Yes
	Investigations on	& both	Publishing West Germany	
	Machinability Parameters	Author and	ISBN: 978-3-659-91338-9	
	of Inconel 718	Publisher		
	Pg.Nos: 91			

### 5.4. Projects Guided:

a) UG: 30

b) PG: 13

5.5. Research Interests: Manufacturing Processes

5.6. Ph.D students:

a) Enrolled: Nilb) Submitted: Nil

c) Awarded: Nil

# **5.7. Papers published in reviewed International Journals:**

S.No.	Title	Journal	ISSN/ISBN NO.	Whether Peer Reviewed Impact Factor, if any
		Materials Today: Proceedings - in production.	2214-7853	Peer Reviewed and Indexed in Scopus ,Thomson Reuters, Web of Science.
	Complex Components	Materials Today: Proceedings - <i>in</i> production.	2214-7853	Peer Reviewed and Indexed in Scopus ,Thomson Reuters, Web of Science.
	Components Using	IOP conference series- Material Science and Engineering- <i>in press</i>	ISSN:1757- 8981 E- ISSN:1757- 899X	indexed in Scopus, Thomson Reuters and COMPENDEX
	Characterization of Hyper elastic Material Using Experimental Data and Finite Element Simulation	Materials Today Vol. 24 (2020) 1660-1669	2214-7853	Peer Reviewed and Indexed in Scopus ,Thomson Reuters, Web of Science.
	Characterization of Hyper elastic Material by Experimental Tests and Curve Fitting	Materials Today Vol. 24 (2020) 1670-1679	2214-7853	Peer Reviewed and Indexed in Scopus ,Thomson Reuters, Web of Science.

6	Eyeball Movement based Cursor Control using Raspberry Pi and OpenCV	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-7, 392-395, May 20220	2278-3075	Peer Reviewed and Indexed in Scopus
7	Optimization of controllable turning parameters for high speed dry machining of a super alloy	Materials Today Vol. 5 (2018) 4878–4886	2214-7853	Peer Reviewed and Indexed in Scopus ,Thomson Reuters, Web of Science.
8	Design and Fabrication of Hybrid 3D Printing Machine	International Journal of Engineering Technology Science and Research (IJETSR), Volume 4, Issue 8 August 2017	3386	Yes, Indexed by Google scholar and UGC approved journal, IF : 2.12
9	Fabrication, Mechanical Characterization and Analysis of Carbon Fiber Reinforced Composite used for Aircrafts	International Journal of Advanced Research in Science and Engineering, Vol.6, Issue 7, July 2017, pg. 269-275	8354	Yes Indexed by Google Scholar, IF : 2.83
10	Optimization of Controllable Turning Parameters for High Speed Dry Machining of Super Alloy: FEA and Experimentation	Materials Today Vol. 4 issue 2(2017) 2203-2212 <b>published by Elsevier</b>	2214-7853	Peer Reviewed and Indexed in Scopus ,Thomson Reuters, Web of Science.
11	Manufacturing of a Powerless Amplifier using 3d Printing Technology	International Journal on Mechanical Engineering and Robotics, Vol 4, Issue 2, 2016, pg. 35-38.	: 2321-5747	Yes, Indexed by Google scholar, Impact Factor 1.95
12	Design and manufacturing of a chess coin through CAD/CAM integration	Science and Technology (The International quarterly journal)	3750 EISSN 2394-3769	Indexed in Google Scholar, [ISI (Thompson Reuters), ,SCOPUS, Chemical Abstracts

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		Vol.2, Issue 7, 2016, pp 370-377.		Service (CAS)- under process] and Impact factor is under evaluation
13	Optimization of CNC Laser Cutting Process Parameters	International Advanced Research Journal in Science, Engineering and Technology. Vol.3, Issue 5, May 2016.	ISSN(0): 2393-8021 ISSN(P): 2394-1588	Peer Reviewed and Indexed in Google Scholar, Cross Ref. with Impact Factor 3.943
14	Optimization of Controllable Turning Parameters for High Speed Dry Machining of Super Alloy: FEA and Experimentation	Materials Today published by Elsevier	1369-7021 DOI:10.101 6/j.matpr.20 17.02.067	Peer Reviewed and Indexed in Scopus ,Thomson Reuters, Web of Science.
15	Simultaneous Optimization of Multi Performance Characteristics in Dry Turning of INCONEL 718 using NSGA-II	Materials Today Vol. 2(2015) 2423-2432 published by Elsevier	1369-7021 doi:10.1016/ j.matpr.2015. 07.182	Peer Reviewed and Indexed in Scopus (Elsevier) and the CPCI (Thomson Reuters, Web of Science)
16	Component Replication using 3D Printing Technology	Procedia Material science, Vol. 10 (2015) 263-269 published by Elsevier	2211-8128 doi:10.1016/ j.mspro.2015. 06.049	Peer Reviewed and Indexed in Google scholar
17	Optimization Of Controllable Turning Parameters For High Speed Machining Of Inconel 718 By Measurement Of Surface Roughness	International Journal of Scientific & Engineering Research (IJSER), Volume 7, Issue 2,Feb 2016	2229-5518	Peer Reviewed and Indexed by Thomson Reuters, Google scholar with Impact Factor 3.8
18	Modeling and Analysis of Steam Turbine Blade by Varying Its Profile	International Journal for Scientific Research & Development  Vol. 3, Issue 09, 2015, pp. 1010-1013	2321-0613	Peer Reviewed and Indexed in Google scholar with Impact Factor 2.39
19	Multi-Response Optimization of CNC WEDM Process	International Journal of Mechanical & Production Engineering (IJMPE) Vol. 2,	ISSN (P): 2320-2092; ISSN (0):	Peer Reviewed and Indexed in Google scholar

Parameters for Machining INCONEL 718 using Taguchi Grey Relational Analysis (TGRA)  20 Analysis, Simulation and Fabrication of the Remote Terminal Unit for Automated Commando Training System  21 Optimized high speed turning on Inconel T18 using Taguchi Method based Grey relational analysis  22 Modeling and Optimization of Cutting Parameters in High-Speed Dry  Parameters for Machining INCONEL 718 using Taguchi Machanical and Production Analysis International Journal of ISSN (P): 2249-6890; and Inde Sissn (P): 2249-6890; and Inde Sissn (E): 2249-8001 with Improve and Inde Sissn (P): 2249-8001 with Improve and Inde Sissn (Online); Google Sissn (Online); Google Sissn (P): 2249-8001 with Improve and Inde Sissn (Online); Google Sissn (P): 2249-8001 with Improve and Inde Sissn (Online); Google Sissn (P): 2249-8001 with Improve and Inde Sissn (Online); Google Sissn (P): 2249-8001 with Improve and Inde Sissn (Online); Google Sissn (P): 2249-8001 with Improve and Inde Sissn (Online); Google Sissn (Online); Google Sissn (P): 2249-8001 with Improve and Inde Sissn (Online); Google Sissn (P): 2249-8001 with Improve and Inde Sissn (Online); Google Sissn (Online); Google Sissn (P): 2249-8001 with Improve and Inde Sissn (Online); Google S	iewed xed in ernicus apact 3403 iewed xed in cholar (mpact 0.641
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high speed dry Technology(IJMET), Vol. 3, 6 – 6340 Thomson I	Reuters'
turning of Inconel 718 Issue 3, 2012, pp.294-305 ISSN Research	
using GONNS Online: 097 3771-201	
6-6359 Impact F	
24 Study on the Journal of Manufacturing ISSN: 0973- Peer Rev	
Machinability Engineering 6867	ieweu
Characteristics During Vol. 7, Issue 2, pp. 58-66	
High-Speed Turning of	
Inconel 718 With PVD	
Coated Tool	
25 Development of International Journal of ISSN: 2229- Peer Rev	
Mechanical System for Advances in Science and 5216 and Inde	
Automated Technology, Vol. 4, Issue 2, Google Se	cholar
Commando Training 2012, pp. 81-92	
System  26 Experimental International Journal of ISSN 0076 Page Page	iorred
26 Experimental International Journal of ISSN 0976- Peer Rev Investigations for Manufacturing Science and 6812	iewea
Optimized High Speed Engineering (IJMSE), Vol 2,	
Turning on Inconel Issue 2, 2011, pp. 73-80	
718 Using Taguchi	
Method Based Grey	
Relational Analysis	I

27	Multi-Response	Journal on Manufacturing	ISSN 0972-	Peer Reviewed
	Optimization Of	Technology Today, CMTI,	7396	
	Inconel 718 High	Bangalore, Vol. 10, Issue 6,		
	Speed Turning Using	2011, pp. 11-19		
	Taguchi Method			
	Based Grey Relational			
	Analysis			
28	Experimental	International Journal on	ISSN 0974-	Peer Reviewed
	Investigations on	Mechanical & Automobile	231X	
	Turning of Inconel	Engineering, Vol. 11, Issue		
	718	01, 2010, pp. 18-25		
29	Multi-Response	i-manager's Journal on	ISSN-2230-	Peer Reviewed
	Optimization of High	Mechanical Engineering,	9055	and Indexed in
	Speed Turning	Vol. 1, Issue 3, 2011, pp.		Google Scholar
	Parameters of	48-59		_
	Superalloy Inconel			
	718 Material Using			
	Taguchi Method			
	Based Grey Relational			
	Analysis			

# **5.8. Papers presented at National / International Conferences:**

S.No.	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
	Automated Wall Plastering Machine	International Conference on Science, Engineering and Technology (ICSET-2019) organized by Pallavi Engineering College, Nagole, Hyderabad in association with IFERP.	International	One, 27 <sup>th</sup> -28 <sup>th</sup> September 2019
2	Hyper elastic material using Experimental data and Finite Element	International Conference on Advances in Material and Manufacturing Applications (IConAMMA-2018), organized by AMRUTA UNIVERSITY,Bangolre	International	16 <sup>th</sup> -18 <sup>th</sup> August 2018
3	Hyper elastic material by Experimental tests and Curve Fitting	International Conference on Advances in Material and Manufacturing Applications (IConAMMA-2018), organized by AMRUTA UNIVERSITY,Bangolre	International	16 <sup>th</sup> -18 <sup>th</sup> August 2018
4	Components using Custom made 3D	International Conference on Contemporary Design Analysis of Manufacturing and Industrial Engineering Systems (CDAMIES-2018), NIT, Tiruchy.	International	18 <sup>th</sup> -20 <sup>th</sup> January 2018

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5	3D Printer	3rd International conference on "Innovative Design, Analysis and Development Practices in Aeronautical and Automobile Engineering" (IDAD 2018).	International	22 <sup>nd</sup> to 24 <sup>th</sup> February 2018
6	Design and Fabrication of Hybrid 3D Printing Machine	6 <sup>th</sup> International conference on Recent Trends in Engineering, Applied Science and Management (ICRTESM-2017)	International	6 <sup>th</sup> August 2017
7	Fabrication, Mechanical Characterization and		International	7 <sup>th</sup> July 2017
8	WEDM Process for	International Conference on Advanced in Materials and Product Design (AMPD-2015), NIT Surat	International	10 <sup>th</sup> - 11 <sup>th</sup> January 2015
9	Modelling and Optimization of Cutting Parameters in High- Speed Dry Machining of Inconel 718 Alloy using ANN and GA	Manufacturing Technology Design & Research 2012 (AIMTDR 2012), Jadavpur University, Kolkata, India	International	14 <sup>th</sup> – 16 <sup>th</sup> December 2012
10	Init for Automated	International Conference on Materials Processing and Characterization (ICMPC 2012), GRIET	International	8 <sup>th</sup> -10 <sup>th</sup> March 2012
11	Temperature during High Speed Turning of	International Conference on Computational Methods in Manufacturing IIT, Gawahati	International	15 <sup>th</sup> -16 <sup>th</sup> December 2011
12	Review of Developments towards the	National Conference on Advances in Mechanical Engineering (NCAME 2010), VNR VJIET	National	18 <sup>th</sup> December 2010

13	Optimization of controllable turning parameters for high speed dry machining of a super alloy	7 <sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC-2017)	International	17 - 19 March 2017
14	Design, Modeling & Fabrication of a Screw Jack using 3D Printing Technology	International Conference on Advances in Materials and Manufacturing (ICAMM-2016)	International	8 <sup>th</sup> to 10 <sup>th</sup> December 2016
15	Design and Manufacturing of a Chess Coin through CAD/CAM Integration	International Conference on Trends in Industrial and Mechanical Engineering (IC TIME-2016), NIT, Bhopal	International	4 <sup>th</sup> – 6 <sup>th</sup> February 2016
16	Manufacturing of a Powerless Amplifier using 3d Printing Technology	International Conference on Technological Innovations in Mechanical Engineering (TIME- 2016), CBIT, Hyderabad	International	10 <sup>th</sup> – 11 <sup>th</sup> February 2016
17	Optimization of CNC Laser Cutting Process Parameters	International Conference on Research Advancements in Engineering, Science and Information Technology(ICRAESIT-2015), B.V. Raju Institute of Technology, Hyderabad	International	15 <sup>th</sup> -16 <sup>th</sup> December 2015
18	Parametric Modeling and Dynamic Characterization of Steam Turbine Blade Test Rig	International Conference on Emerging Trends in Science Technology Engineering and Management(ICETSTEM-2015), Malla Reddy Engineering College, Hyderabad	International	9 <sup>th</sup> – 10 <sup>th</sup> October 2015
19	Simultaneous Optimization of Multi Performance Characteristics in Dry Turning of INCONEL 718 using NSGA-II	4 <sup>th</sup> International Conference on Materials Processing And	International	14 <sup>th</sup> - 15 <sup>th</sup> March 2015
20	Experimental Investigations on Residual Stress and Surface Roughness in dry Turning of INCONEL 718	International Conference on Emerging Technologies in Mechanical Sciences (ICEMS- 2014), Malla Reddy College of Engineering & Technology, Hyderabad	International	26 <sup>th</sup> – 27 <sup>th</sup> December 2014
21	AWJM Process Optimization using Principle Component Analysis (PCA)	International Conference on Advanced Materials and Manufacturing Technologies (AMMT), JNTU College of Engineering, JNTU, Hyderabad	International	18 <sup>th</sup> – 20 <sup>th</sup> December 2014

22	Multi-Response Optimization of WEDM Process using TGRA & PCA	International Conference on Advances in Design & Manufacturing (ICAD&M'2014), National Institute of Technology, Tiruchirappalli	International	5 <sup>th</sup> – 7 <sup>th</sup> December 2014
23	Component Replication using 3D Printing Technology	2 <sup>nd</sup> International Conference	International	17 <sup>th</sup> – 18 <sup>th</sup> October 2014
24	Optimization of Abrasive Water Jet Machining Process Parameters using Taguchi Grey Relational Analysis (TGRA)	13 <sup>th</sup> International Conference on Research and Development in Engineering & Technology (ICRDET), IRAJ Research Forum	International	20 <sup>th</sup> July 2014
25	Experimental Investigations during high speed turning of Inconel 718 using CVD coated tool	5 <sup>th</sup> International academic conference on electrical, electronics and computer engineering (IACEECE), Institute of Research and Journals	International	22 <sup>nd</sup> September 2013
26		3 <sup>rd</sup> International and 24 <sup>th</sup> AIMTDR Conference, AU, Vizag	International	13 <sup>th</sup> – 15 <sup>th</sup> December 2010
27	Machinability study of Nickel base super alloy using CBN Cutting Tools in High Speed Machining	(NCOAIMAIE-2007), VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad	National	12 <sup>th</sup> - 14 <sup>th</sup> July 2007

# 5.9. Sponsored research Projects:

S.N	Title	Agency	Period	Grant	Ongoing /
0				amount	Completed
1	Optimization of controllable turning parameters in high speed dry turning of super alloys for minimization of Tool Wear	UGC- Minor Research Project	2 Years	Rs. 3.5 lacs	Completed

#### 5.10 Consultancy Projects:

S.N	Title	Agency	Period	Sanctioned	Ongoing /
0				Amount	Complete
					d
1	Machining of Super alloys	AICTE	1 Year	15	Completed
2	Automated Commando Training System (ACTS)	AP Grey Hounds	2 Years	9	Completed
3	Automated Commando Training System (ACTS)	National Police Academy (NPA)	2 Years	28	Completed

#### **6.**Awards / Honors received:

- Guided II best B.Tech Final Year Project in the State Level B.Tech. Final year project Presentations held at Engineering Staff College of India, Gachiboli, Hyderabad in May 2012.
- Received Best Paper Publication Award in an International Conference for the paper titled "Experimental Investigations on Residual Stress and Surface Roughness in dry Turning of INCONEL 718", International Conference on Emerging Technologies in Mechanical Sciences (ICEMS-2014), December 26-27, 2014, pp. 73-78, organized by Department of Mechanical, Aeronautical & Mining Engineering, Malla Reddy College of Engineering & Technology, Hyderabad.
- Chaired two sessions for the 4<sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC- 2015), 14th – 15th March 2015, organized by Department of Mechanical Engineering, Gokaraju Ranga Raju Institute of Engineering & Technology, Hyderabad.
- Chaired one session for the 5<sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC- 2016), 12th – 13th March 2016, organized by Department of Mechanical Engineering, Gokaraju Ranga Raju Institute of Engineering & Technology, Hyderabad in collaboration with Maulana Azad National Institute of Technology, Bhopal, M.P.
- Chaired one session for the 7<sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC- 2017), 17th – 19th March 2017, organized by Department of Mechanical Engineering, Gokaraju Ranga Raju Institute of Engineering & Technology,

Hyderabad in collaboration with Maulana Azad National Institute of Technology, Bhopal, M.P.

 Chaired one sessions for the 9<sup>th</sup> International Conference on Materials Processing and Characterization (ICMPC- 2019), 8th – 10th March 2019, organized by Department of Mechanical Engineering, Gokaraju Ranga Raju Institute of Engineering & Technology, Hyderabad.

#### 7. Motto:

To produce citizens with human values and right attitude towards their profession