



BIO DATA of Dr. M.S.R. NIRANJAN KUMAR

1. Name : **Dr. M.S.R. Niranjana Kumar**
2. Father's Name : M.Gopala Krishna
3. Date of Birth : 23-05-1970
4. Address with E-mail, : niranjana.m356@gmail.com
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Official Address : Professor & Controller of Examinations,
Mechanical Engineering Department,
PVP Siddhartha Institute of Technology,
Kanuru, Vijayawada- 520 007

Permanent Address : Quarter Number: AE 160 'C' Colony
Dr NTTPS, Ibrahimpatnam 521456
Krishna District, Vijayawada.

6. Nationality : INDIAN
7. Religion : HINDU
8. Educational Qualification :
(from UG onwards)

S. No.	Qualification	University/Institute	Specialization	Department	Other remarks
1	B.E	Mysore University	Industrial Production	ME	First Class with Distinction
2	M.Tech	Nagarjuna University	Production Engineering	ME	First Class
3	Ph.D	Andhra University	Analysis of Composites using FEM	ME	

9. Details of Doctoral Thesis : Static and Thermoplastic Analysis of SKEW FRP Laminated Composite Plates with Elliptical Cutout.

Area of Thesis work : Analysis of Composites using FEM
 Supervisor : Dr. M M M Sarcar (Late)
 Year of Completion work : 11-9-2008
 Year of award of Ph.D : March-2009

10. Professional Experience :

S. No.	Institute / Organization	Position held	Date of joining	Duration	Regular/ Adhoc /Ratified
1	Super Cons Packaging Private Limited, Hyderabad	Plant Engineer	1-10-1993	3 Years & 2 Months	Regular
2	Super Cons Packaging Private Limited, Hyderabad	Plant Manager	1-1-1997	3 Years & 10 Months	Regular
3	V R Siddhartha Engineering College	Lecturer	02-01-2001	6 Years & 11 Months	Ratified
4	V R Siddhartha Engineering College	Senior Lecturer	01-12-2007	1 Year & 1 Month	Regular
5	V R Siddhartha Engineering College	Assistant Professor	01-01-2009	10 months	Regular
6	Grandhi Varalakshmi Venkata Rao Institute of Technology	Principal	19-10-2009	2 Years & 8 Months	Ratified
7	Prasad V Potluri Siddhartha Institute of Technology	Professor & COE	12-06-2012	Till Date	Regular
Industry Experience :7 years Teaching Experience : 17 years 2 months					

11. Subjects Taught : 1. Engineering Drawing
 2. Industrial Management
 3. Rapid Prototyping
 4. Concurrent Engineering

12. Administration : 1. Controller of Examinations since 2012
 2. Institutional coordinator for NBA and NAAC

13. Research projects completed as Coordinator :

S. No.	Title of the Project	Funding agency	Sanctioned amount and Year of Sanction	Duration of the project	Present status
NIL					

14. Research Experience :8 Years

(A) Ph.D scholars guided :

S.No.	Name of the Research Scholar	Title of the Thesis	Year of Award of Ph.D	University /Institute who has awarded the degree	Supervisor/ Co-Supervisor
NIL					

(B) Ph.D scholars presently working :

S.No.	Name of the Research Scholar	Area of the work	Year of Registration	Registered University /Institute	Supervisor/ Co-Supervisor
NIL					

(C) Number of Publications :

S. No	Status of Journal	During Ph.D Programme	After Ph.D Programme
1	International Journals	20	8
2	National Journals	8	
3	International Conferences	6	
4	National Conferences	8	

(D) List of Publications :

International Journals

S. No	Authors	Title of the Research paper	Name of the Journal	Volume No.	Issue No.	Page Nos.	Year of publication	Impact factor
1	M.S.R. Niranjan Kumar, M.M.M.Sarcar , V. Bala Krishna Murty	Effect of Ellipse orientation on the Static Behaviour of Skew Laminated Composite Plate with Elliptical Cutout	<i>Int. J. of Material Science</i> (ISSN 0973-4589)	2		263-274	2007	

2	M.S.R. Niranjn Kumar, M.M.M.Sarcar , V. Bala Krishna Murty, K.Mohana Rao	Analysis of Thick Skew Laminate with Elliptical cutout Subjected to Non-linear Temperature Distribution: Major Axis of Ellipse Vertical	<i>Int. J. of Theoretical and Applied Mechanics</i> (ISSN 0973-6085)	3		97- 106	2008	
3	M.S.R. Niranjn Kumar, M.M.M.Sarcar , V. Bala Krishna Murty, K.Mohana Rao	Analysis of Thick Skew Laminate with Elliptical cutout Subjected to Non-linear Temperature Distribution: Major Axis of Ellipse Parallel to Inclined side	<i>Int. J. of Applied Engineering Research</i> (ISSN 0973-4562)	3		441- 450	2008	
4	M.S.R. Niranjn Kumar, M.M.M.Sarcar , V. Bala Krishna Murty, K.Mohana Rao	Analysis of Thick Skew Laminate with Elliptical cutout Subjected to Non-linear Temperature Distribution: Major Axis of Ellipse Horizontal	<i>Int. J. of Material Science</i> (ISSN 0973- 4589)	3		177- 186	2008	
5	M.S.R. Niranjn Kumar, M.M.M.Sarcar , V. Bala Krishna Murty, K.Mohana Rao	Analysis of Thick Skew Laminate with Elliptical cutout Subjected to Non-linear Temperature Distribution: Major Axis of Ellipse Collinear with longer diagonal	<i>Int. J. of Mechanics and Solids</i> (ISSN 0973-1881)	3		87- 98	2008	
6	M.S.R. Niranjn	Analysis of Thick Skew	<i>Journal of Solids and Structures</i> (ISSN 0973-	2		53- 67	2008	

	Kumar, M.M.M.Sarcar , V. Bala Krishna Murty, K.Mohana Rao	Laminate with Elliptical cutout Subjected to Non-linear Temperature Distribution: Major Axis of Ellipse Collinear with shorter diagonal	5615)					
7	K.Sivaji Babu, K.Mohana Rao,V.Rama Chandra Raju, V. Bala Krishna Murty, M.S.R. Niranjan Kumar	Micro Mechanical Analysis of FRP Hybrid Composite Lamina for Thermal Loading	<i>Int. J. of Material Science</i> (ISSN 0973- 4589)	2		295- 307	2007	
8	K.Sivaji Babu, K.Mohana Rao,V.Rama Chandra Raju, V. Bala Krishna Murty, M.S.R. Niranjan Kumar	Prediction Of Shear Moduli Of Hybrid FRP Composite With Fiber- Matrix Interface Debond	<i>International Journal of Mechanics and Solids (IJM&S)</i> (ISSN 0973-1881)	3		147- 156	2008	
9	K.Sivaji Babu, K.Mohana Rao, V.Rama Chandra Raju, V. Bala Krishna Murty, M.S.R. Niranjan Kumar	Prediction Of Coefficients Of Thermal Expansion Of Hybrid FRP Composite With Fiber- Matrix Interface Debond	<i>International Journal of Mechanics and Solids (IJM&S)</i> ISSN 0973-1881)	3		137- 146	2008	
10	A.V.Sudhakar, V.Rama Chandra Raju, V. Bala Krishna Murty, K.Mohana Rao, M.S.R. Niranjan Kumar	Study of thermo elastic behavior of skew laminated composite plate with circular cutout using finite element method	<i>Journal of Mechanical Engineering</i> (ISSN 0039- 2472)	59	1	53- 60	2008	
11	M.S.R.	Thermoelastic	International Journal of	1		39-	2008	

	Niranjan Kumar, M.M.M.Sarcar V. Bala Krishna Murty, K.Mohana Rao	Analysis of Thick Skew Laminate with Elliptical Cutout Subjected to Combined Loading: Major Axis Collinear with Shorter Diagonal	Systems and Technologies (IJST) ISSN 0974 - 2107)			47		
12	M.S.R. Niranjan Kumar, K.Manikantes h, N.Raghuram	Effect of Chemical Treatments on Tensile and Flexural Properties of Bamboo Reinforced Composite	International Journal of Engineering Research & Technology (IJERT) ISSN 2278-0181)	2	12		2013	1.76 UGC Approved
13	M.S.R. Niranjan Kumar, M.Somaiah Chowdary	Effect of Nanoclay on Tensile Properties of Polyester and S-glass Fiber(Al)	International Journal of Engineering Research & Technology (IJERT) ISSN 2278-0181)	3	5		2014	1.76 UGC Approved
14	M.S.R. Niranjan Kumar, M.Somaiah Chowdary	Effect of Nanoclay on the Mechanical properties of Polyester and S-glass Fiber (Al)	International Journal of Advanced Science and Technology (ISSN: 2005-4238 IJAST Copyright © 2015 SERSC)	74		35-42	2015	
15	Dr. MSR Nirajan Kumar, I RAMAKRISH NA, Dr. V VASU	“Experimental Investigation of Mechanical Properties of (Okra/Sisal) Hybrid Natural Fiber Reinforced Polyester Composite”	“International Journal of Research & Development in Science and Technology” Volume1, Issue2 , May 2015, ISSN 2350-4751 (Print) & ISSN 2350-4751(Online)	1	2	80-90	May 2015	

16	Dr.M.S.R.Niranjan Kumar, P. Neeraja, M.Somaiah Chowdary	“Effect of Nanoclay on Tensile Properties of Hybrid Polymer matrix Composites”	International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 - 0056 Volume: 03 Issue: 06 June-2016 www.irjet.net p-ISSN: 2395-0072	03	06		June-2016	
17	Dr. M.S.R Niranjan Kumar P. Prasanthi, Dr. K. Sivaji Babu, Dr. B. Raghu Kumar	“Effectiveness Of Nano Layers On Interlaminar Stresses Of Composite Laminate”	International Journal of Mechanical Engineering and Technology (IJMET) Volume 8, Issue 1, January 2017, pp. 15–24, Article ID: IJMET_08_01_002 Available online at http://www.iaeme.com/IJMET/ ISSN Print: 0976-6340 and ISSN Online: 0976-6359 © IAEME Publication	8	1	15–24	January 2017	
18	Dr M.S.R Niranjan Kumar B. Yaswanthi, B. Mark Kenneth B. Koti Kiran, Ch N.V.S Vara Prasad	“Fabrication of Paddy Saplings Transplanter”	International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 - Volume: 04 Issue: 03 Mar -2017 www.irjet.net p-ISSN: 2395-0072© 2017, IRJET Impact Factor value: 5.181 ISO 9001:2008 Certified Journal Page 2489	04	03		Mar -2017	
19	MSR Niranjan Kumar P Phani Prasanthi , K Sivaji Babu , G Raja Vamsi and N Raghu Ram	“Analysis of hybrid composite with moisture defects using finite element method and micromechanics”	Materials Research Express, Volume 4, Number 10 2017 IOP Publishing Ltd ISSN :20531591	04	10		2017	UGC Approved 0.87

20	MSR Niranjan Kumar, M. Manna Prince	Design and Analysis of Electrical unloaded Bracket of An Aircraft.	International journal of Advanced Research in Education and Technology(IJARET),	Volume 4	Issue 3	77-80	July – September 2017	
21	Y. Asha Ravalika 1 Dr.M.S.R. Niranjan Kumar 2 and M. Somaiah Chowdary3	Evaluation of Tensile Properties of Nano-Silica Reinforced Hybrid Composites.	Journal of Emerging Technologies and Innovative Research (JETIR)	Volume 5, (ISSN-2349 - 5162)	Issue 8	278-282	© 2018 JETIR August 2018,	
22	P. Sai Kumar, M.S.R. Niranjan Kumar, P. Gopala Krishnaiah	Optimization of Process Parameters of Wire Cut Electrical Discharge Machining on Titanium Grade-5 Material using Design of Experiments	International Journal of Innovative Technology and Exploring Engineering (IJITEE)'	ISSN : 2278 – 3075 (Online), Volume-8,	Issue-11	3937 - 3946 .	September 2019,	Scopus

National Journals

S. No.	Authors	Title of the Research paper	Name of the Journal	Volume No.	Issue No.	Page Nos.	Year of publication
1	M.S.R. Niranjan Kumar, M.M.M.Sarcar, V. Bala Krishna Murty	Effect of Skew Angle on the Static Behaviour of Thick Skew Laminated Composite Plate with Elliptical Cutout	<i>National journal of Technology</i> (ISSN 0973-1334)	3		14-20	2007
2	M.S.R. Niranjan Kumar, M.M.M.Sarcar, V. Bala Krishna Murty	Thermo Elastic Analysis Thick Skew Laminated Composite Plate with Elliptical Cutout	<i>Journal of Manufacturing Engineering</i> (ISSN 0973-6867)	3	1		2008

3	K.Sivaji Babu, K.Mohana Rao, V.Rama Chandra Raju, V. Bala Krishna Murty M.S.R. Niranjan Kumar	Micro Mechanical Analysis of FRP Hybrid Composite Lamina for Longitudinal Loading	<i>National journal of Technology</i> (ISSN 0973- 1334)	4		24-32	2008
4	K.Sivaji Babu, V.Rama Chandra Raju, V. Bala Krishna Murty, M.S.R. Niranjan Kumar	Micro Mechanical Analysis of FRP Hybrid Composite Lamina for Out of Plane Transverse Loading	<i>Journal of Manufacturing Engineering</i> (ISSN 0973- 6867)	3	1		2008
5	K.Sivaji Babu, K.Mohana Rao, V.Rama Chandra Raju, V. Bala Krishna Murty, M.S.R. Niranjan Kumar	Micro Mechanical Analysis of FRP Hybrid Composite Lamina for In Plane Transverse Loading	<i>Indian Journal of Engineering & Materials Sciences</i> (ISSN : 0971-4588) Impact factor 0.413	15		382-390	2008 UGC Approved
6	MSR Niranjan Kumar, MMM Sarcar & V Bala Krishna Murthy	Static analysis of thick skew laminated composite plate with elliptical cutout	<i>Indian Journal of Engineering & Materials Sciences</i> (ISSN : 0971- 4588) Impact factor 0.413	16		37-43	2009 UGC Approved
7	M.S.R. Niranjan Kumar, M.M.M.Sarcar, V. Bala Krishna Murty, K.Mohana Rao	Effect of ellipse orientation on the thermoelastic behaviour of skew laminated composite plate with elliptical cutout	Bulletin of Materials Science. (ISSN: 0250- 4707)	32		59-64	2009 UGC Approved
8	M.S.R. Niranjan Kumar, M.M.M.Sarcar, V. Bala Krishna Murty, K.Mohana Rao	Analysis of thick skew laminate with elliptical cutout subjected to combined loading: Major axis collinear with longer diagonal	Manufacturing Technology Today. (ISSN: 0972-7396)				UGC Approved

International Conferences

S. No.	Authors	Title of the Research paper	Name of the Proceedings	Page Nos.	Dates of the conference.	Organized by
1	M.S.R. Niranjan Kumar V. Bala Krishna Murthy, U. Koteswara Rao,	<i>Free Vibration Analysis of Three Layered C-P Sandwich Beam</i>	International Conference on Resource Utilization and Intelligent Systems (INCRUIS-2006)	197-201	Jan. 4-6, 2006	Kongu Engineering College, Tamilnadu
2	M.S.R. Niranjan Kumar V. Bal Krishna Murthy	<i>Features of Finite Element Software – ANSYS and its Application for a Structural Problem</i>	<i>International conference on Information Technology {MERC 05}</i>		1-3 Oct 2005	S.R.K.R. Eng. College, Bhimavaram
3	M.S.R. Niranjan Kumar, K.M. Rao, V. Bal Krishna Murthy and U. Koteswara Rao	<i>Finite Element Analysis of FRP Laminated Cantilever Beam</i>	International Conference on Total Engineering, Analysis & Manufacturing Technologies (TEAM TECH2006)		Feb28 th - March2 nd 2006	IISc Bangalore
4	M.S.R. Niranjan Kumar V. Bala Krishna Murthy and U. Koteswara Rao	<i>Finite Element Analysis of FRP Laminated Indeterminate Beam</i>	International Conference on Advances in Materials Processing and Characterization (AMPC 2006)	709-715	28-30 August 2006	College of Engineering, Guindy, Anna University
5	A.V. Sudhakar, M.S.R. Niranjan Kumar, Dr. V. Bala Krishna Murthy, Dr. K.M.Rao and Dr. V. Rama Chandra Raju	<i>Thermoelastic Analysis of skew cross-ply laminated composite plate with a circular cutout</i>	International Conference on Advances in machine Design and Industry Automation	143-147	10-12 January, 2007	Department of mechanical Engineering, College of Engineering, Pune
6	M.S.R. Niranjan Kumar, V. Bala Krishna	<i>Thermoelastic Analysis of Skew Angle-Ply Laminated</i>	International Conference on Advanced Design and		9-11 August 2007	Department of Mechanical Engineering and Department of

	Murthy and U. Koteswara Rao	<i>Composite Plate with a Circular Cutout</i>	Manufacturing (ICADM-2007)			Production Engineering, SETHU INSTITUTE OF TECHNOLOGY, Pulloor, Tamilnadu, India
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National Conferences

S. No.	Authors	Title of the Research paper	Name of the Proceedings	Page Nos.	Dates of the conference.	Organized by
1	Dr. MSR Nirajan Kumar, Dr. N sai , Dr. V VASU	Simulation of Manufacturing System Layout Using computer Based Algorithm	<i>National conference on state of the art of technologies in Mechanical Engineering {NCSAME 2004}</i>		29-30 June 2004	JNTU Hyderabad
2	Dr. MSR Nirajan Kumar, Dr. V VASU	Multi Attributes for Selection of Manufacturing Site in Supply Chain Management using ELECTRE Method	<i>All India Manufacturing Technology Design & Research conference {AIMTDR}</i>		20-22 Dec 2004	Vellore Institute of Technology – vellore, T.N
3	Dr. MSR Nirajan Kumar, Dr. V VASU	Expert System Approach for Selection of Material Handling Equipment	<i>Emerging Trends on concurrent Engineering</i>		15-16 Jan 2005	NIT, Roorkee
4	M.S.R. Niranjan Kumar, K. Mohana Rao, V. Bala Krishna Murthy and U. Koteswara Rao	<i>Static Analysis of FRP Laminated Composite Beams</i>	National Conference on Technological Advancements in Mechanical Engineering (TAME-2005)	257-262	December 2-3, 2005	Department of Mechanical Engineering, Sreenidhi Institute of Science & Technology, Hyderabad, Andhra Pradesh
5	M.S.R. Niranjan Kumar, U. Koteswara Rao, V. Bala Krishna Murthy and K. Sivaji Babu	<i>Static Analysis of Fixed FRP Laminated Composite Beams</i>	National Conference on Computer Applications in Mechanical Engineering, (CAME-2005)	10-14	December 21, 2005	Department of Mechanical Engineering, J.N.T.U. College of Engineering, Anapatur,

						Andhra Pradesh
6	M. S. R. Niranjan Kumar V. Bala Krishna Murthy, U. Koteswara Rao, K. Sivaji Babu	<i>Static Analysis of Composite Skew Plates with a Circular Cutout</i>	National Conference on Advances in Mechanical Engineering (AIME-2006)		January 20-21, 2006	Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi
7	M.S.R. Niranjan Kumar, K. Sivaji Babu, Dr. V. Balakrishna Murthy and G. Sambasiva Rao	<i>Micromechanical Stress Analysis of Hybrid FRP Composite for out-of-plane Transverse Loading</i>	<i>National Conference on Advances in Materials and Manufacturing Processes (AMMP2007)</i>	145-150	5-6 October 2007	Department of studies in Mechanical Engineering, University BDT College of Engineering, Davangere, Karnataka
8	MSR Niranjan Kumar, K. Sivaji Babu, Dr.V Bala Krishna Murthy, G. Sambasiva Rao	<i>Effect of Ellipse Orientation on The Static Behaviour of Skew Laminated Composite Plate with Elliptical Cutout</i>	<i>National Conference on Advances in Materials and Manufacturing Processes (AMMP2007)</i>	216-221	5-6 October 2007	Department of studies in Mechanical Engineering, University BDT College of Engineering, Davangere, Karnataka

15. Areas of research interests

: **Nano Composites ,Smart Materials, Green and Sustainable Technologies for Materials Manufacturing and Processing**

16. **Membership in Professional organizations**

: **MIE138089-8, IAENG-174486**

17. **Seminars/ FDP/Workshop conducted**

:

1. Organised **AICTE sponsored** Two Week Faculty Development Programme on Current Trends in Aircraft Maintenance and Future Enhancements during **17-06-2013 and 29-06-2013**.
2. Organised **NMEICT (MHRD, Govt of India) sponsored** Four day “Aakash Android Application Programming Workshop for Students during **23& 24 Feb 2013 and 2nd and 3rd Feb 2013**.
3. Organised **DST sponsored** Two Day Seminar on “Smart materials, Adaptive Structures, and Intelligent systems” during **28-11-2014 and 29-11-2014**.

4. Organised **DST sponsored** Two Day Seminar on “Mechatronics and MEMS” during **06-11-15 and 07-11-15**.
5. Organised **DST sponsored** Two Day Seminar on “Additive Manufacturing and 3D Printing” during **18-11-2016 and 19-11-2016**.
6. Organised **SAGTE, sponsored** one Day Seminar on “*Electrical Discharge Machining Process*” during **16th September 2017**.
7. Organised **AICTE sponsored** Two Week Faculty Development Programme on “Green and Sustainable technologies for material manufacturing processes” during **10-06-2019 and 22-06-2019**.
8. Submitted Research Proposals to AICTE (RPS), DST awaiting result.

18. **Guest Lecturers Delivered and others** :

1. Recent Trends in Marketing on 9th Dec 2004 at *Govt. Polytechnic College, VIJAYAWADA*.
2. General Principles of Marketing on 25th Feb. 2005 at VRSEC for *Central Food Processing Training and Research Institute- Mysore*.
3. Entrepreneur Training and Development in India on 23rd Aug. 2005 at *Nandigama Govt. Polytechnic for women*
4. Delivered guest lecture at Andhra Loyola College of Engineering and Technology on Effective teaching methodologies on 8/06/17.
5. Acted as a judge for Technical Paper presentation and Project Expo in IIIT Nuziveedu, Vignan University and MIC College of Engineering.

19. **Workshop Attended** :

1. Recent Advances in Fiber Reinforced Composite Materials, 26th – 28th July 2007, Sponsored by AICTE, New Delhi, organized by Department of Mechanical Engineering, V.R. Siddhartha Engineering College.
2. “Machine Condition Monitoring and Fault Diagnostics” 25th June – 07th July 2012, Sponsored by AICTE, New Delhi, organized by Department of Mechanical Engineering, V.R. Siddhartha Engineering College.
3. Participated in a Two day ISTE Work Shop on Aakash for Education Conducted by Indian Institute of Technology Bombay on 10th and 11th November, 2012.

Patents Details

S.I.No	Name of the Patenter	Patent Application Number	Title of the patent (Filed)
1	Dr. P.Phani Prasanthi, Dr. K,Sivaji Babu, Dr. M.S.R Niranjn Kumar (ME)	317142-001	Smart iron box
2	Dr. P.Phani Prasanthi, I.Arun Babu, Dr. K,Sivaji Babu, Dr. MSR Niranjn Kumar, Dr. B.Raghu Kumar (ME)	319157-001	Mixer grinder

Declaration

I hereby declare that the information furnished is true to the best of my knowledge and belief.

Signature

Date:24-09-2019

Station: Vijayawada.