



GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY::NELLORE
DEPARTMENT OF MECHANICAL ENGINEERING

Research Publications

The intellectual contribution of a Technical institute to the community at large can be gleaned by the research publications produced by the faculty. The department faculty regularly engages in research activities either by presenting papers in conferences or publishing papers in peer reviewed journals of National and International repute. During 2019-20 academic year, 10 Nos of faculty members presented papers in a National conference, NCRTIME and published in journal AJMET by collaborating with other final B.Tech students in the department. During 2018-19 academic year, 12 Nos of faculty members presented papers in a National conference, NCRTIME and published in journals IJOER and JETIR by collaborating with other faculty in the department. During 2017-18 academic year, 10 Nos of faculty published papers in the journals like IJOER, IJSDR, IJCRT, IJRASET, IJCESR and IJETER. During 2016-17 academic year, 7 Nos of faculty members published papers in the journals like IJSDR, IJETER and IJCESR. Students are made part of the department activities taken up and contribute their might for advancing research in the department.

In the changing pace of science and technology, the teaching faculty are required to teach the latest technologies learned on their own from time to time. If the faculty have possessed lower degrees, they are unable to handle more complex tasks and need to upgrade their skills in the form of attaining higher degrees. Hence a PhD degree has become mandatory for teaching faculty. Our Faculty are encouraged to enroll for PhD degrees in recognized Indian Universities. In the last three years, the details of faculty enrolled for PhDs are herewith furnished. On duty is provided for faculty to pursue Ph.D, to attend conference and other technical events.

Table5.7: Summary of Faculty publications in Journals/ Conferences during 3 assessment years (2019-20, 2018-2019 and 2017-2018)

S.No	Name of the Faculty	Designation	Qualification	Number of Publications in	
				Conferences	Journals
1	Dr.G.Subba Rao	Professor	Ph.D	0	5
2	Dr. T.Suneel Kumar	Professor	Ph.D	3	5
3	Dr. Ch. Sreenivas Rao	Associate Professor	PhD	3	2
4	Mr.M.Mahendra Babu	Associate Professor	ME (PhD)	3	8
5	Mr.Y. Murali Krishna	Assistant Professor	M.Tech (PhD)	2	6
6	Mr.Ch. Mani Kiran	Assistant Professor	M.Tech	2	4
7	Mr.SK. Rahamath Basha	Assistant Professor	M.Tech (PhD)	2	8
8	Mr. I Venkatesh	Associate Professor	M.Tech	2	6
9	Mr.K.R.Sreedhar	Associate Professor	M.Tech	1	2
11	Mr.P. Sreenivasulu	Assistant Professor	M.Tech	2	6
15	Mr.N.Anjaneyulu	Assistant Professor	M.Tech	2	5
16	Mr.M.V. Raja	Assistant Professor	M.Tech	1	1
17	Ms.P.Thameem Bhanu	Assistant Professor	M.Tech	1	0
18	Mr.C.Subrahmanyam	Assistant Professor	M.Tech	2	2
19	Mr. P. Krishna Chaitanya	Associate Professor	M.Tech	1	1

Table 5.7.1: Year wise distribution of faculty publications in Journals during 3 assessment years
(2018-19, 2017-2018 and 2016-2017)

S.No	Name of the Faculty	2019-20	2018-19	2017-18
1	Dr.G.Subba Rao	-	-	3
2	Dr.T.Suneel Kumar	2	1	2
3	Dr.Ch.Sreenivasa Rao	3	-	-
5	Mr.M.Mahendra Babu	3	3	2
6	Mr. Y. Murali Krishna	1	3	2
7	Mr.Ch. Mani Kiran	1	2	1
8	Mr.SK. Rahamath Basha	1	4	2
9	Mr. I Venkatesh	1	3	2
10	Mr.N.Anjaneyulu	1	2	2
11	Mr.P. Sreenivasulu	1	3	2
12	Mr V.Ramu	-	-	-
13	Mrs.G.Nilima	-	-	-
14	Mr.C.Subrahmanyam	1	1	1
15	Mr.K.R.Sreedhar	-	2	1
16	Mr. P. Krishna Chaitanya	-	1	1
17	Mr.M.V. Raja	-	1	1
18	Ms.P.Thameem Bhanu	-	1	-



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Research Publications (Journals)

List of faculty publications in Journals during the assessment year 2019-2020

Sl. No.	Name of the Faculty Author	No of Auth ors	Main Author/ other	Title of the Paper	Name of the Journal	ISSN Number	URL
1	Dr.T.Suneel Kumar	5	Yes	Design and Fabrication of pick and place robotic arm	IJME	2693-3713	https://arpub.co.uk/mechanical
2		5	Yes	Analysis of remote controlled pick and place robotic vehicle	IJME	2693-3713	https://arpub.co.uk/mechanical
3	Dr.Ch.Sreenivasa Rao	5	Yes	Analysis of Nano fluid based Solar Collector	IJME	2693-3713	https://arpub.co.uk/mechanical
4		5	Yes	Design and Fabrication of Abrasive Jet Machine	IJME	2693-3713	https://arpub.co.uk/mechanical
5		1	Yes	Development of High Performance Solar Collector using TiO ₂ -Water Nano fluid	IJME	ISBN -13: 978-93-80831-42-8	

6	Mr. Ch.Mani Kiran	5	Yes	Fabrication and testing of Pneumatic gear shift mechanism	IJME	2693-3713	https://arpub.co.uk/mechanical
7	Mr. M. Mahendra Babu	5	Yes	Performance evaluation of glass/epoxy composite with carbon nano tubes	IJME	2693-3713	https://arpub.co.uk/mechanical
8		5	Yes	Processing and Characterization of Basalt fiber reinforced Polymer Matrix Composite	IJME	2693-3713	https://arpub.co.uk/mechanical
9	Mr. Rahamath Basha Shaik	5	Yes	Modelling and fabrication of Geneva wheel based seed ball sowing machine	IJME	2693-3713	https://arpub.co.uk/mechanical
10		5	Yes	Modelling and thermal analysis of LED lamp casing by optimizing of Fins	IJME	2693-3713	https://arpub.co.uk/mechanical
11	Mr.C.Subramanyam	5	Yes	Modelling and Thermal Examination of Rocket Jet Nozzle Coated with Ultra-High Temperature Ceramics	IJME	2693-3713	https://arpub.co.uk/mechanical

12	Mr.N.Anjaneyulu	5	Yes	Design and structural analysis of front bumper of a car	IJME	2693-3713	https://arpub.co.uk/mechanical
13		5	Yes	Implementation of quality circle in production of a nozzle in fuel injector	IJME	2693-3713	https://arpub.co.uk/mechanical
14	I. Venkatesh	5	Yes	Design and Static Analysis of Pelton turbine Bucket	IJME	2693-3713	https://arpub.co.uk/mechanical
15	Mr. Y.Murali Krishna	5	Yes	Modeling and analysis of centrifugal compressor blade of a Turbo Jet engine	IJME	2693-3713	https://arpub.co.uk/mechanical
16		5	Yes	Modelling and structural analysis of naca 2412 aircraft wing with aluminum alloy and Ti-6Al-4V material	IJME	2693-3713	https://arpub.co.uk/mechanical



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Research Publications (Journals)

List of faculty publications in Journals during the assessment year 2018-2019

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ ISSN Number	URL
1	Mr Ch. Mani Kiran	5	No	Design and analysis of motor bike frame	IJTIMES	2455-2585	http://ijtimes.com/papers/special_papers/NCRTIME2K19-09.pdf
2		3	Yes	Design and fabrication of agrobot	JETIR	2349-5162	http://www.jetir.org/view.php?paper=JETIR1902847
3	Mr Y. Murali Krishna	5	Yes	Fabrication of oil skimmer	IJTIMES	2455-2585	http://ijtimes.com/papers/special_papers/NCRTIME2K19-06.pdf
4	Mr M. Mahendra Babu	1	Yes	A Neural Network approach to estimate the flank wear on a single point cutting tool in turning process	JETIR	ISSN-2349-5162	http://www.jetir.org/view?paper=JETIR1810326

5	Mr N. Anjaneyulu	3	Yes	Design and Analysis of Chassis Frame of Monoseater Four Wheeled Vehicle	IJOER	ISSN:23 21-7758	http://www.ijoer.in/6.1.18/55-65%20CH.%20MANI%20KIRAN.pdf
6		3	Yes	Design and Fabrication of a AGROBOT	JETIR	ISSN: 2349-5162	http://www.jetir.org/view.php?paper=JETIR1902847
7		3	Yes	Design & analysis of suv chassis and its passenger cabin cavity	IJTIMES	2455-2585	http://ijtimes.com/papers/special_papers/NCRTIME2K19-10.pdf
8	Dr T.Sunil Kumar	5	Yes	High Speed Emergency Aerial Vehical	IJTIMES	2455-2585	http://ijtimes.com/papers/special_papers/NCRTIME2K19-11.pdf
9	Mr M. Mahendra Babu	5	Yes	Design and Aanalysis of Heavy Vechical Rear Axial	IJTIMES	2455-2585	http://ijtimes.com/papers/special_papers/NCRTIME2K19-08.pdf
10	Mr I. Venkatesh	5	Yes	Fabrication & Analysis of Mechanically Operated rotational Scissors Lift	IJTIMES	2455-2585	http://ijtimes.com/papers/special_papers/NCRTIME2K19-07.pdf

11	Mr. Rahamath Basha Shaik	5	Yes	Performance Analysis of Vapour Compression Refrigeration System under alternative Refrigerant	IJTICES	2455-2585	http://ijtimes.com/papers/special_papers/NCRTIME2K19-04.pdf
12	Mr Subramanyam.C	4	Yes	Modifying the Fin Design and Improving Thermal Efficiency of Super Heater Tube	IJTICES	2455-2586	http://ijtimes.com/papers/special_papers/NCRTIME2K19-03.pdf



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Research Publications (Journals)

List of faculty publications in Journals during the assessment year 2017-2018

Sl. No.	Name of the Faculty Author	No of Authors	Main Author/other	Title of the Paper	Name of the Journal	ISBN/ISSN Number	URL
1	Mr Ch. Mani Kiran	3	yes	Design and analysis of chassis frame of mono seater four wheeled vehicle	IJOER	2321-7758	http://www.ijoer.in/6.1.18/55-65%20CH.%20MANI%20KIRAN.pdf
2	Mr SK Rahamath Basha	5	yes	Coupled field (Structural and Thermal) analysis of Turbine Blade	IJSDR	2455-2631	http://www.ijedr.org/viewpaperforall.php?paper=IJSDR1802019
3		8	yes	Fabrication and Testing of solar heat collector by using alternative absorber and glaze materials	IJRASET	2321-9653	https://www.ijraset.com/fileserve.php?FID=16930
4		3	No	CFD analysis on aerodynamic airfoil Horizontal axis wind turbine rotor blades	IJCRT	2320-2882	http://ijcrt.org/viewfull.php?&p_id=IJCRT1802392

5	Mr SK. Rahamath Basha	3	No	Experimental analysis on pulse tube Refrigerator	IJCRT	2320-2882	http://ijcrt.org/papers/IJCRT1802778.pdf
6	Mr P. Sreenivasulu	3	No	CFD Analysis On Aerodynamic Airfoil Horizontal Axis Wind Turbine Rotor Blades	IJCRT	2320-2882	http://ijcrt.org/viewfull.php?&p_id=IJCRT1802392
7		1	Yes	Material Optimisation of BBC 120F Rock Drill Bit	IJSETR	2319-8885	http://ijsetr.com/uploads/352614IJSETR14310-499.pdf
8		3	Yes	Fabrication and Analysis of Portable Spot Welding Machine	IJCESR	2393-8374	http://troindia.in/journal/ijcesr/vol5iss3part6/43-49.pdf
9	Mr K. Hari Brahmaiah	3	Yes	CFD analysis on aerodynamic airfoil Horizontal axis wind turbine rotor blades	IJCRT	2320-2882	http://ijcrt.org/viewfull.php?&p_id=IJCRT1802392
10		3	No	Fabrication and Analysis of Portable Spot Welding Machine	IJCESR	2393-8374	http://troindia.in/journal/ijcesr/vol5iss3part6/43-49.pdf

11	Mr N. Anjaneyulu	3	No	CFD Analysis on Heavy Duty Trucks for Drag Reduction	IJAR	2320-5407	https://www.journalijar.com/article/17968/cfd-analysis-on-heavy-duty-trucks-for-drag-reduction/
12	Mr Y Murali Krishna	3	Yes	Casting Simulation for Diesel Engine Flywheel by using Computer Aided Design & Manufacturing	IJETER	2454-6410	http://ijeter.everscienc e.org/Manuscripts/Vol ume-5/Issue-10/Vol-5-issue-10-M-20.pdf
13		3	Yes	Computational fluid Dynamics and Couple field analysis of Gas turbine blade by using Super Alloy Inconel-718	IJETER	2454-6410	http://ijeter.everscienc e.org/Manuscripts/Vol ume-5/Issue-10/Vol-5-issue-10-M-18.pdf
14		3	Yes	Taguchi Optimization Technique for cutting parameters of high speed turning of Inconel 718 by using Cubic Boron Nitride and Alumina Ceramic KY 1615	IJETER	2454-6410	http://ijeter.everscienc e.org/Manuscripts/Vol ume-5/Issue-10/Vol-5-issue-10-M-17.pdf
15	Mr I. Venkatesh	3	No	Taguchi Optimization Technique for cutting parameters of high speed turning of Inconel 718 by using Cubic Boron Nitride and Alumina Ceramic KY 1615	IJETER	2454-6410	http://ijeter.everscienc e.org/Manuscripts/Vol ume-5/Issue-10/Vol-5-issue-10-M-17.pdf
16		3	No	Computational fluid Dynamics and couple field analysis of gas turbine blade by using super alloy inconel-718	IJETER	2454-6410	http://ijeter.everscienc e.org/Manuscripts/Vol ume-5/Issue-10/Vol-5-issue-10-M-17.pdf

							issue-10-M-18.pdf
17	Mr M. Mahendra Babu	1	Yes	Experimental Investigation of Cutting Force and Tool Wear In Turning Process for A HSS Single Point Cutting Tool Using Mathematical Model and ANN Model	IJASRE T	2456-0774	http://ijasret.com/VolumeArticles/FullTextPDF/181_4.Experimental_Investigation_of_Cutting_Force.pdf
18		3	No	Taguchi Optimization Technique for Cutting Parameters of High Speed Turning of Inconel718 by using Cubic Boron Nitride and Alumina Ceramic KY 1615	IJETER	2454-6410	http://ijeter.everscience.org/Manuscripts/Volume-5/Issue-10/Vol-5-issue-10-M-17.pdf
19		3	No	Computational Fluid Dynamics and Couple Field Analysis of Gas Turbine Blade by using Super Alloy Inconel-718	IJETER	2454-6410	http://ijeter.everscience.org/Manuscripts/Volume-5/Issue-10/Vol-5-issue-10-M-18.pdf
20		3	No	Casting Simulation for Diesel Engine Flywheel by using Computer Aided Design and Manufacturing	IJETER	2454-6410	http://ijeter.everscience.org/Manuscripts/Volume-5/Issue-10/Vol-5-issue-10-M-20.pdf
21	Mr K.R.Sreedhar	2	Yes	“Extracting of density and compression values of an Al-Wc MMC produced by using sintering furnace”	IJSDR	2455-2631	http://www.ijedr.org/viewpaperforall.php?paper=IJSDR1705080

22	Mr K.R.Sreedhar	2	Yes	“Analyzing and augmentation of heat transfer in horizontal tube with insert by using FEA and Taguchi method”	IJSDR	2455-2631	http://www.ijedr.org/viwpaperforall.php?paper=IJSDR1611001
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Research Publications (Journals)

List of faculty publications in Journals during the assessment year 2016-2017

Sl. No	Name of the Faculty Author	No of Authors	Main Author/ other	Title of the Paper	Name of the Journal	ISBN/ ISSN Number	URL
1	Mr SK Rahamath Basha	3	No	Fabrication and analysis of portable spot welding machine	IJCESR	2393-8374	http://troindia.in/journal/ijcesr/vol5iss3part6/43-49.pdf
2		5	Yes	Coupled Field (Structural and Thermal) Analysis of Turbine Blade	IJSDR	2455-2631	http://www.ijedr.org/viewpaperforall.php?paper=IJSDR1802019
3	Mr Y Murali Krishna	2	Yes	Fatigue Analysis of Diesel Engine Flywheel by using S-Glass Composite Material.	IJETER	2454-6410	http://ijeter.everscience.org/Manuscripts/Volume-5/Issue-5/Vol-5-issue-5-M-02.pdf
4	Mr I.Venkatesh	2	No	Fatigue analysis of diesel engine flywheel	IJETER	2454-6410	http://ijeter.everscience.org/Manuscripts/Volume-5/Issue-5/Vol-5-issue-5-M-02.pdf

5	Mr P. Krishna Chaitanya	5	Yes	Coupled Field (Structural and Thermal) Analysis of Turbine Blade	IJSDR	2455-2631	http://www.ijedr.org/viewpaperforall.php?paper=IJSDR1802019
6	Mr K. Hari Bramaiah	5	Yes	Coupled Field (Structural and Thermal) Analysis of Turbine Blade	IJSDR	2455-2631	http://www.ijedr.org/viewpaperforall.php?paper=IJSDR1802019
7	Mr P. Sreenivasulu	5	No	Coupled Field (Structural and Thermal) Analysis of Turbine Blade	IJSDR	2455-2631	http://www.ijedr.org/viewpaperforall.php?paper=IJSDR1802019
8	Dr. T. Sunil Kumar	3	No	Finite Element Fatigue Analysis of Mg Alloy (AM60) Aircraft Wheel Hub	IJESRT	2277-9655	http://www.ijesrt.com/issues%20pdf%20file/Archive-2016/November-2016/75.pdf



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Publications in Conferences

Summary of faculty publications in conferences:

S.No	Name of the Faculty	2019-20	2018-19
1	Dr.T.Suneel Kumar	1	1
2	Dr. Ch. Sreenivas Rao.	1	-
3	Mr.M.Mahendra Babu	-	1
4	Mr.Y. Murali Krishna	-	1
5	Mr.Ch. Mani Kiran	-	1
6	Mr.SK. Rahamath Basha	-	1
7	Mr. I Venkatesh	-	1
8	Mr.N.Anjaneyulu	-	1
9	Mr.C.Subrahmanyam	-	1

List of faculty conference publications during 2019-20 Assessment year

Sl. No.	Name of the Faculty as Author	No of Authors	Main Author/ others	Title of the Paper	Name of the Conference	Date/s	Organized by with location
1.	Dr T. Sunil Kumar	1	Yes	Non-Destructive crack detection technique based on surface temperature in ceramic matrix composites	Recent Advances in Computational and Experimental Mechanics	4-6 Sep'2020	IIT, Kharagpur
2.	Dr Ch. Sreenivasa Rao	1	Yes	Development of High Performance Solar Collector using TiO ₂ -Water Nano fluid	National Level e-Conference on "Recent Advances in Technology & Engineering	ISBN -13: 978-93-80831-42-8	Vemu Institute of Technology, Chittoor

List of faculty conference publications during 2018-19 Assessment year

Sl. No.	Name of the Faculty as Author	No of Authors	Main Author/ others	Title of the Paper	Name of the Conference	Date/s	Organized by with location
1.	Mr.N.Anjaneyulu	3	Yes	Design & analysis of SUV chassis and its passenger cabin cavity	NCRTIME 2K19	04/04/2019	GIST, Nellore
2.	Dr T. Sunil Kumar	5	Yes	High speed emergency aerial vehicle	NCRTIME 2K19	04/04/2019	GIST, Nellore
3.	Mr Ch. Manikiran	5	Yes	Design and analysis of motor bike frame	NCRTIME 2K19	04/04/2019	GIST, Nellore

4.	Mr M.Mahendra Babu,	5	Yes	Design and analysis of heavy vehicle rear axle	NCRTIME 2K19	04/04/2019	GIST, Nellore
5.	Mr I. Venkatesh	5	Yes	Fabrication & analysis of mechanically operated rotational scissors lift	NCRTIME 2K19	04/04/2019	GIST, Nellore
6.	Mr Y. Murali Krishna	5	Yes	Fabrication and analysis of belt type oil skimmer	NCRTIME 2K19	04/04/2019	GIST, Nellore
7.	Mr. Rahamath Basha Shaik	5	Yes	Performance Analysis of Vapour Compression Refrigeration System under alternative Refrigerant	NCRTIME 2K19	04/04/2019	GIST,Nellore
8.	Mr Subramanyam.C	4	Yes	Modifying the Fin Design and Improving Thermal Efficiency of Super Heater Tube	NCRTIME 2K19	04/04/2019	GIST,Nellore



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Table 5.7.1.6: List of Faculty pursuing Ph.D degree during 3 assessment years (2018-19, 2017-2018 and 2016-2017)

Sl. No.	Name of the Faculty	Title of the Ph.D topic	Name of the University	Name of the Guide	Date of Enrollment	Remarks
1.	M.Mahendra Babu,	Synthesis and Characterization of hybrid composites	Andhra University Vizag	Dr. M.Prameela Devi	06/04/2018	3 rd year pursuing
2.	Y. Murali Krishna	Additive Manufacturing	GITAM university Vizag	Dr.Punna Eswaraiah	22/06/2018	3 rd year pursuing
3.	V.Ramu	Bio Composites	Annamalai University Chidambaram	Dr S.Ramanadhan	06/02/ 2020	1 st year pursuing
4.	Rahamath Basha Shaik	Development of Vapour compression Refrigeration system with Azeotropic mixtures	KL University Vijayawada	Dr. K.Narasima Rao	12/04/2016	5 th year pursuing
5.	KR Sreedhar	Development of a smart solenoid for cars	KL University Vijayawada	Dr.K.Jamaleswara Rao	12/04/2016	5 th year pursuing



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Table 5.7.1.7: List of Faculty Guiding Ph.D Scholars during 3 assessment years (2018-19, 2017-2018 and 2016-2017)

Sl. No.	Name of the Faculty	Name of the Student	Name of the University	Title of the Ph.D topic	Date of Enrollment	Date of Award	Remarks
1.	Dr.G.Subba Rao	Mr.A.Hemanth Kumar	SCSVMV University Kanchipuram	CVD and PVD tools	22/03/2017		Pursuing
2.	Dr.G.Subba Rao	Mr.Gotham Karunanidhi	JNTUA,Ananthapur	CFD Analysis of IC Engines	08/06/211		Pursuing