

**DEPARTMENT OF MECHANICAL ENGINEERING**

# **MECHAZINE**

*(2021-2022)*

*(Semester-I)*

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Assistant Professor.

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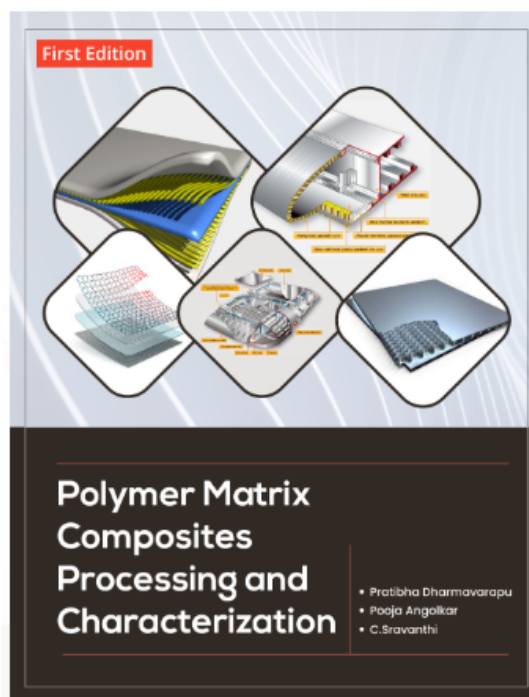
## 2. FACULTY ACHIEVEMENTS:

### i) DETAILS OF FACULTY PATENTS:

S. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Published Date / Granted Date (DD/MM/YYYY)
1	202141046315 A	Published	A. Muni Tanuja, P. Sarita, A. Neeraja, P. Chaitanya Krishna Chowdhary	Testing for Porosity in Carbon Fiber Reinforced Polymers (CFRP)	A. Muni Tanuja, P. Sarita, A. Neeraja, P. Chaitanya Krishna Chowdhary	29/10/2021
2	350102- 001/D/SP/AG	Published	Dr. N. Madan Mohan Reddy Mrs. P. Saritha Dr. R. Venkat Reddy Mr. L. Srinivas Naik Mr. K. Srinivasa Chalapathi	TEST RIG TO MEASURE BLAST DEFLECTIONS	Dr. N. Madan Mohan Reddy	17/12/2021

## ii) Books Publication Details:

S.No	Names of the Author	Title of the Book	Publishing Company & ISBN
1	Mrs. Pratibha Dharmavarapu Mrs. Pooja Angolkar Mrs. C. Sravanthi	Polymer Matrix Composites processing and characterization	Metro Composites & 978-81-954513-3-3



**iii) Grants Received:**

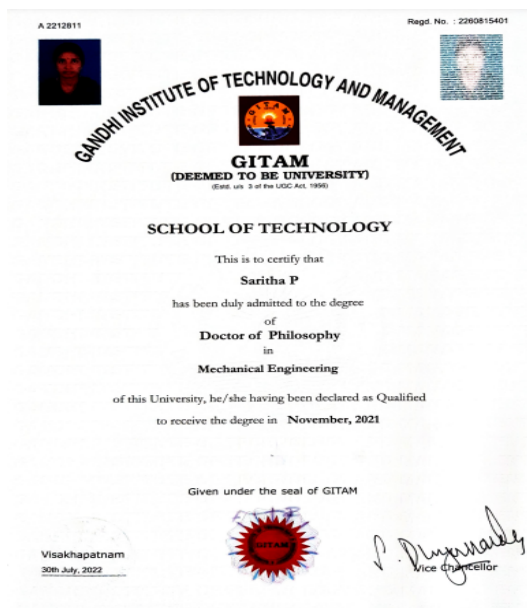
S. No	Investigator	Title	Date of Sanction/Sanction Order No	Sanctioned Project Amount (Rs.)	Funding Agency
1	Dr. P. Ravikanth Raju,	Augmented Reality and Virtual Reality in Engineering Applications	01/AICTE/ATAL-HQ/2020-21/123(12)	93,000/-	AICTE-ATAL FDP



**iv) Funding Proposals Applied/Sanctioned**

<b>S. No</b>	<b>Scheme Name</b>	<b>Funding Agency</b>	<b>Title of the Proposal</b>	<b>Investigator(s)</b>	<b>Proposed Budget/ Applied on/ Reference Number</b>	<b>Status</b>
1	Advanced Manufacturing Technologies (AMT) Program)	DST	Development of Zirconia-based Ceramics having Low Temperature Degradation Resistance for Biomedical Applications	PI: Dr. Shiva Bejugama Co-PI (1): Dr. Vasudha Bakshi Co-PI (2): Dr. L.Venugopal	46.2 Lakhs/ 13-10-2021/ TPN/72915	Under Review
2	STI Hub for SC Community	SEED-DST	Socio-Economic Empowerment of SC Community by Enhancing Employability Through Dissemination of Technical Knowledge	Mr. TATAPUDI PRASAD	47.59 Lakhs/ 04/10/2021/ TPN / 72740	Under Review

- Dr. P. Saritha was awarded Ph.D from GITAM University, Hyderabad on November, 2021.



- Dr. N. Madan Mohan Reddy has received “Best Researcher award” by Novel Research Academy, puducherry, India for the A.Y. 2021-22 on 30<sup>th</sup> Nov, 2021.



- Mr. K. Srinivasa Chalapathi has received “Best Researcher award” by Novel Research Academy, puducherry, India for the A.Y. 2021-22 on 9<sup>th</sup> Dec, 2021

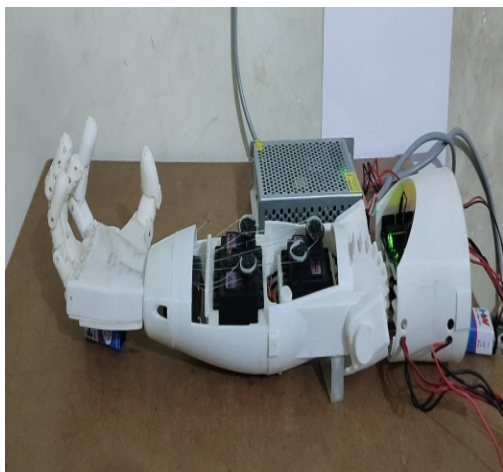




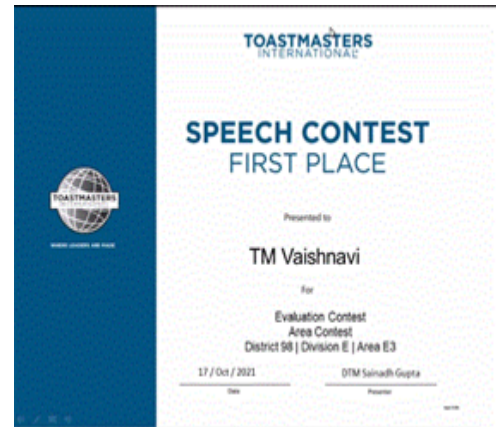
### 3. STUDENTS ACHIEVEMENTS:

S. No.	Name of the activity	Number of students participated
1	Paper publications	3
2	Internships	35
3	NSS	3
4	Sports	6
5	Training & certification courses	43

- Ryala Ravikiranreddy from III year Mechanical presented his prototype, “Low cost 3D printed Prosthetic arm” in the Assistive Technology Exhibition-2021 and got appreciated for his accomplishment by Shri. Jayesh Ranjan, IAS principal secretary, ITE&C Dept and many officials of Govt. of Telangana, conducted by Telangana State Innovation Cell (TSIC), happened on the International Day of Persons with Disabilities.



- II-Mech-B sec student Miss. P. Lakshmi Vaishnavi won Humorous speech contest and evaluation contest in area level and represented area E3 in Division Conference. (October 2021).



- II-Mech-B sec student Miss. P. Lakshmi Vaishnavi won the Master of ceremonies at the event, ATC -5 Pre RDC-3 Launching, organised by Telangana Battalion at Bison training grounds, Secunderabad in December 2021.



### 3. FACULTY PUBLICATIONS:

S No	Authors	Title of the paper	Name of the Journal	Volume no, issue no	Index	Page No.
1	L.Venugopal Kosaraju Satyanarayana	Investigation on tube end forming behaviour of AA6061 alloy. Advances in Materials and Processing Technologies	Advances in Materials and Processing Technologies	Jul 2021, DOI: 10.1080/2374068X.2021.1945264, ISSN: 2374-0698	WoS	01
2	Jibitesh Panda	Trade-Off Study on Economy and Environmental Aspects of a Dual-Fuel Diesel Engine Using Diesel Additive and Producer Gas	JERT, ASME	Vol. 144, Issue 3, 2021, pp. 032301-13 <a href="https://doi.org/10.1115/1.4052862">https://doi.org/10.1115/1.4052862</a> , ISSN: 0195-0738	SCI	21
3	Jibitesh Panda	Optimization of hydrogen-enriched diesel/n-Amyl alcohol-fueled engine to meet emission standards through varying nozzle opening pressure and static injection timing	Heat Transfer	pp.1-22, December , 2021, <a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/htj.22414">https://onlinelibrary.wiley.com/doi/abs/10.1002/htj.22414</a> , ISSN: 15231496	SCI	34
4	Harish Mugutkar N. Tamiloli	Application of Taguchi and RSM Parameters on Surface Roughness and Material Removal Rate of AA6082T6	Journal of Physics	pp.1-9, 2021, doi:10.1088/1742-6596/2070/1/012211, ISSN: 17426588	Scopus	114
5	P. Ravikanth Raju, C.V. Rama Sasthri, K. Amaravathi Reddy	Mechanical Characterization and Vibration Analysis of Composite Laminated Cross Ply Symmetric and Antisymmetric Plates	Design Engineering	Volume-15, Issue 9, pp.1412-1421, December 2021, ISSN: 119342	Scopus	124
6	K Sandeep kumar, Dr.K.Srinivasa	Evaluation of Performance and Emission on CI Conventional	Design Engineering	Issue 9, pp. 9674-9687, December	Scopus	134

	reddy, Dr.E.Ramjee	Engine by Apllying Different Blends of Tamanu Biofuel and Diesel: An Analysis with DEE Additive		2021, ISSN:0011-9342		
7	Dr.P. Saritha, A. Muni Tanuja, Jush Kumar Siddani	Modeling and Analysis of Human Transportation Segway Vehicle	International Journal of Progressive Research in Engineering Science and Technology (IJPREST)	Volume: 01 Issue: 01, pp. 14 – 25, November 2021, ISSN:2582-7898	Scopus	148
8	J. Venkatesu Naik, Krishnaiah talari, Mohammad. Sikindar Baba	Effect of Process Parameters in WEDM (Wire Electrical Discharge Machining) Angle Cutting on D3tool Steel Material	Design Engineering	Issue: 8, 12809 – 12818, July 2021, ISSN: 0011-9342	Scopus	160
9	Thallapalli Aravind, Dr T Krishnaiah	Experimental Analysis on Mechanical Behavior of Cu and Al <sub>2</sub> O <sub>3</sub> Composites	Design Engineering	Issue:9, pp.7466–7475, December 2021, ISSN: 0011-9342,	Scopus	170
10	Jush Kumar Siddani, P Saritha, P. Chinna Sreenivas Rao	Effect Of Edm-Drilling Process Parameters Using Brass, Copper And Zinc Coated Tubular Electrodes On Drilling Of Ti-6al-4v	Turkish Online Journal of Qualitative Inquiry	Volume 6, pp.6114-6124, July 2021, ISSN:1309-6591,	Scopus	180
11	N. Madan Mohan Reddy, S. Shravya	Development and Experimental Investigation of Jute and Bamboo Cellulose Composites	Design Engineering	Issue: 9, pp. 9971-9981, ISSN: 0011-9342, 2021	Scopus	194

12	S.Premkumar,L.Ve nugopal	Analysis of Industrial Impeller and Optimization of Process Parameters Using Taguchi Technique	Design Engineering	Issue: 9, 9401-9413, December 2021 ISSN:0018-2045,	Scopus	205
13	T.Prasad, B.Praveen	Development of Carbon and Glass fiber Reinforced composites with the addition of nano-egg-shell powder	Innovations in Mechanical Engineering	pp. 569-577, 2022	Scopus	206

#### **4. FACULTY PARTICIPATIONS(FDPs / Webinars):**

<b>S. No</b>	<b>Event Name</b>	<b>No of Faculty Participated</b>
1	Short Term Training Programme (STTP)	5
2	Faculty Development Programme (FDP)	15
3	Workshops	5
4	EDX Certifications	3
6	Webinars	10

#### **5. CLUB EVENTS:**

**Title of the guest lecture:** ARTIFICIAL INTELLIGENCE FOR MECHANICAL  
ENGINEERING

**Resource person** : Dr. Vijay Kumar Manupati

Assistant Professor

NIT, Warangal

**Date conducted** : 3<sup>rd</sup> December 2021

**Conducted for** : II & III year students







## **PBL CLUB:**

**Description:** Project Based Learning - Model Making was implemented for this semester for the subject: “Kinematics of Machines”

**Name of the Organizers:** Dr. S. Madhu, Mrs. A. Neeraja and Dr. P. Saritha (Faculty Coordinator of AU-PBL Club).



MECHANICALLY OPERATED CLOTHES WASHING MACHINE





MODEL OF A LOW-COST WEED REMOVER TO USE IN FARM LANDS

## 6. INDUSTRY INSTITUTION INTERACTION:

S.No	Number of	Number
1	Companies contacted	5
2	Direct placements	6 (Apprenticeships)
3	MOUs signed	2
4	Recruiters	1

## 7. PLACEMENTS:

S.No	Company	no. of students placed	package
1	L&T TSL	14	4.0
2	HCL	6	4.3
3	Accenture	1	6.5
4	Virtusa	4	5.0
5	Sutherland	43	2.7
6	MuSigma	9	4.0
7	Hyundai Transys R&D Pvt. Ltd	1	3.7
8	Jindal Steel Ltd	3	8.0
9	Accenture	13	4.5
10	Cognizant	31	4.0
11	TCS	23	3.5
12	Tech Mahindra	1	3.3
13	Thyssenkrupp Industries	3	3.0

## 8. INTERNSHIPS:

Sr. No	Name of the Company	Topic	Duration	Participant	
				HT. No	Name
1	Abyom SpaceTech and Defence Pvt. Ltd.	Manufacturing Technology	08-06-2021 to 27-07-2021	19H61A03F0	Akshay
2	Abyom SpaceTech and Defence Pvt. Ltd.	Smart Nano materials	11-06-2021 to 11-09-2021	19H61A03F0	Akshay
3	Orbital Space Technologies and Learnings	Dark matter and Dark energy	18-10-2021 to 31-12-2021	19H61A03F0	Akshay
4	Elite Techno Groups	Electric Vehicles	18-08-2021 to 15-09-2021	18H61A03J7	B. Saril Reddy
5	Elite Techno Groups	Electric Vehicles	17-08-2021 to 14-09-2021	18H61A0395	M. Gayathri
6	Elite Techno Groups	Electric Vehicles	17-08-2021 to 14-09-2021	18H61A0377	D. Pavan Tej
7	Elite Techno Groups	FEA/CFD	17-08-2021 to 14-09-2021	18H61A0377	D. Pavan Tej
8	Elite Techno Groups	FEA/CFD	17-08-2021 to 14-09-2021	18H61A03L4	K. Mohith kumar
9	Elite Techno Groups	FEA/CFD	18-08-2021 to 15-09-2021	18H61A03K1	G. Vishal
10	Elite Techno Groups	Mechanical Design	17-08-2021 to 14-09-2021	18H61A03G3	M. Rishi Kalyan
11	Elite Techno Groups	Mechanical Design	17-08-2021 to 14-09-2021	18H61A03P3	Sharanya Sri
12	Elite Techno Groups	Mechanical Design	17-08-2021 to 14-09-2021	18H61A03K9	K. Kranthi kiran
13	Elite Techno Groups	Mechanical Design	17-08-2021 to 14-09-2021	18H61A03A5	Pavithra Kumar

14	Elite Techno Groups	FEA/CFD	17-08-2021 to 14-09-2021	18H61A0378	Y. Ganesh Netha
15	Elite Techno Groups	Python for ML/AI	17-08-2021 to 14-09-2021	18H61A03F7	A.Lokaditya
16	DRDL-DRDO	Manufacturing Technology	01-04-2021 to 30-04-2021	17H61A0307	B. Jyoshna
17	Ni-MSME	Design & Analysis	01-06-2021 to 16-06-2021	17H61A0307	B. Jyoshna
18	Medha Servo Drives PVT. LTD	Manufacturing Technology	05-04-2021 to 27-04-2021	17H61A0343	P. Panduranga Reddy
19	Hunar Engineering school for Employability	Industry 4.0 skills	June, 2021	18H61A03M9	N. Tanmayi
20	Hunar Engineering school for Employability	Industry 4.0 skills	June, 2021	18H61A03M5	Mohammed Amaan
21	Hunar Engineering school for Employability	Industry 4.0 skills	June, 2021	19H65A0330	V. Bindhu Madhavi
22	GoInformative Educational Services	Python programming	05-07-2021 to 20-08-2021	18H61A03F7	A.Balaraj Lokaditya
23	Ni-MSME	Dynamic Simulation	16-05-2021 to 15-06-2021	17H61A0361	Aiswarya Wadekar
24	Skyy Rider Institutions	Four wheeler technology	01-06-2021 to 14-06-2021	18H61A0310	C. Vamshi
25	Exposys Data Labs	Human Resource	01-06-2021 to 30-06-2021	17h61a03a8	S. Manisha
26	FMAE Academy	Aerodynamics	30-04-2021 to 28-05-2021	17h61a0354	Syed Khaja Nayeem Hussain
27	FMAE Academy	Electric Bike	20-06-2021 to	18H61A0377	D. Pavan Tej

			20-07-2021		
28	Ni-MSME	Conceptual Model of Casting pattern	12-04-2021 to 08-05-2021	17H61A03J0	Y. Eeashwam Kumar
29	NRK Engineering Technologies	CNC Machines	07-04-2021 to 06-05-2021	18H65A0331	K. Manikanteswara Rao
30	NRK Engineering Technologies	CNC Machines	07-04-2021 to 06-05-2021	18H65A0334	K. Krishnakanth
31	NRK Engineering Technologies	CNC Machines	07-04-2021 to 06-05-2021	18H65A0328	J. Ganesh Babu
32	GoInformative Educational Services	Python programming	05-07-2021 to 20-08-2021	17H61A03F0	K. Jaswanth
33	Ni-MSME	Design & Analysis	16-05-2021 to 15-06-2021	17H61A0373	G. Likitha
34	Entrepreneurship Network	Software Testing	15-09-2021 to 17-10-2021	17H61A03P5	S. Ravi Shanker Reddy
35	Internshala Trainings	Solid works	04-06-2021 to 16-07-2021	18h61a0388	K. Uday kumar