



Gyan Ganga Institutes of Technology & Sciences, Jabalpur

Approved by AICTE, New Delhi

YANTRAGYAN, Newsletter of Department of Mechanical Engineering

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Yantragan
Newsletter, Jan-
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Volume 1, Issue 2

EDITORIAL TEAM

Prof. P.K. Sahu

Prof. T.K. Mishra

Prof. M. Krishna

Prof. Pragyan Jain

Prof. Jyoti Soni

Message from Editor's Desk:

Welcome to this issue of Newsletter from the Department of Mechanical Engineering. We are delighted to launch our Bi-Annual Newsletter "YANTRAGYAN". This newsletter is a digital way for us to communicate with our students, faculty members, alumni and industrial partners. This newsletter will provide a glimpse of the departmental activities and achievements. Also, it enlightens the readers about the latest happenings in the department, focusing about different activities like placement, ISA, institutional club activities, student and faculty achievements. We look forward for more activities and achievements for the department to march towards excellence in the future. We would like to thank all teaching, supporting staff and our beloved students for their constant support.

Message from HoD's Desk



Dr. SVH, Nagendra, HoD

Warm greetings!!

Welcome and best wishes to all the friends of the Department who receive this Newsletter. It has been an interesting and busy semester for members of the Department.

This Newsletter is an attempt towards the achieving Motivation. The newsletter which is being rolled out today marks the launch of a sparkling activity that would enable the Management to bring out to the eyes of the competitive world, the academic achievements of our prestigious institution.

The newsletter is one of the ways in which we can disseminate information on the life of the Department. The past semester was highly affected by the Pandemic of Covid-19. Most of the activities were conducted through online mode. As you read through the pages you will realize, that the Department had a particularly successful semester, during pandemic. I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace.

Stay Safe & Stay Healthy
Dr. S.V.H. Nagendra
Associate Professor & HoD
Department of ME

Department Vision, Mission, PEOs and PSOs

Vision

To be centre of excellence in teaching, employability, and research & development in the field of mechanical engineering for accomplishment of societal needs.

Mission

- To educate and develop an ethical mechanical engineering professionals.
- To develop an aptitude of technological innovation, team work, R & D, entrepreneurship and excellence with environmental sustainability.
- To develop quality teaching-learning and infrastructure facilities even beyond required by the curriculum.

Program Specific Outcome (PSOs) of the Department

On successful completion of graduation degree, the graduates will be able to:

- **PSO 1**-Gain a sound foundation in mathematical, scientific and engineering areas to solve and analyze complex mechanical engineering problems using knowledge, research, and method based feasible solutions so as to meet the industrial requirements and to satisfy the societal needs.
- **PSO 2**-Understand the concept of the design, production and thermal engineering subsequently to develop products using modern tools such as CAD/CAM etc. and latest manufacturing practices which are eco-friendly and sustainable with an aptitude to adopt lifelong learning of technological changes.
- **PSO 3**-Acquire project managerial skills to work independently or as a team with good communication, effective presentation, documentation and professional ethics for the benefits of society.

Workshops/seminars/FDP/conference/attended by faculty through online

S. No.	Title	Session	Faculty Name
1	One Week Online Faculty Development Programme on "ADVANCES IN MATERIALS SCIENCES", at Sree Vidyanikethan Engineering College, Tirupati	01 to 5th March , 2022	1) Prof. Murali Krishna.M 2) Prof. P.K.Sahu 3) Prof. Vivek Gedam 4) Prof. Manoj Tiwari 5) Prof. Sandeep Kumar Dubey 6) Prof. Anupam Jain
2	NPTEL-AICTE FDP on the Joy of Computing Using Python (Jan- Apr 2022)	Jan- Apr 2022	Prof. P.K.Sahu
3	NPTEL-AICTE FDP on Surface Engineering of Nano Materials (Jan- Apr 2022)	Jan- Apr 2022	1) Prof. P.K.Sahu 2) Prof. Anupam Jain
4	Development of Cad Model Simplification Framework For Finite Element Analysis; 2nd International Conference on Research and Development In Science And Technology; Morocco	5 May 2022	Prof. Vivek Gedam

5	NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION;Intellectual Property Office and Moe's Innovation Cell, India	11 June 22	Prof. Vivek Gedam
6	Nptel E-Awareness Workshop ;Nptel;Iit Madras; June 16, 2022	16 June 2022	Prof. Vivek Gedam
7	Smart Materials and Intelligent System Design - NPTEL AICTE FDP	FEB - MARCH 2022	Prof. Ankur Dave
8	NPTEL- Enhancing Soft Skills And Personality, Completed on 24th April 2022	24th April 2022	Dr. Vinit Gupta
9	ATAL FDP On "Nanostructured Materials And Their Applications" National Institute Of Technology Manipur	7 th to 11 th Feb 2022	Prof. Anupam Jain

Publication details of faculty

S. No.	Authors	Title of Publication	Journal/Conf Erence	Volume/ Issue	Impact /Factor	DOI No.
1	Tribhuwan Kishore Mishra, Preetam Kumar Sahu	Effect of Heat Treatment on Friction And Abrasive Wear Behavior Of Wc-12co Microwave Cladding,	Materials Today: Proceedings, 2022, Elsevier.	56		https://doi.org/10.1016/j.matpr.2022.01.217
2	Tribhuwan Kishore Mishra	<u>An Experimental Study On Abrasive Wear Behaviour Of Wc-12co And Wc-20cr₂C3-7ni Coatings.</u>	Materials Today: Proceedings, 2022, Elseviere	56		https://doi.org/10.1016/j.matpr.2022.02.167
3	Sudhanshu Atkare	Multi Spindel Nut Runner Drive System	Accent Journal of Economics Ecology & Engg.	Volume 07, Issue 04	7.98	ISSN:2456-1037
		Braking System Based on Electromagnetic Induction	International Journal of Innovation In Engg. Research & Mgt.	Volume 09, Issue 02		ISSN: 2348-4918
		Chainless Bi-Cycle	Accent Journal of Economics Ecology & Engg.	Volume 07, Issue 04	7.98	ISSN:2456-1037

4	Vivek Gedam, Bhupendra Jain, Deepak Jain, Prateek Chaturvedi	CFD Analysis of Convergent-Divergent Nozzle	Accent Journal of Economics Ecology & Engineering	Vol. 07, Issue 04, April 2022, page 38-40	IMPACT FACTOR: 7.98	ISSN NO. 2456-1037
5	Vivek Gedam And M Krishna	Development Of A Cad Model Simplification Framework For Finite Element Analysis	International Journal of Advance and Innovative Research	Volume 9, Issue 2 (XV): April - June 2022; Pg. No - 97-100		ISSN 2394 - 7780
6	Vivek Gedam Et.A1	Simulation And Identification Techniques For Floating Objects (Using Matlab)	International Journal of Research Publication and Reviews,	Vol 3, no 5, pp 588-591, May 2022,		ISSN 2582-7421

Participation in inter-institute events by students

S. No.	Name Of Students	Event details	Institute/Place	Date	Position / Participation
1	Suyash Tiwari	Participated in "Smart India Heckathon SIH 2022"	Gyan Institute of Technology and Sciences Ganga of	10/03/2022	Participated (* Promoted in next level)
2	Ujjwal Shriwastava	Participated in "Smart India Heckathon SIH 2022"	Gyan Institute of Technology and Sciences Ganga of	10/03/2022	Participated (* Promoted in next level)
3	Arpit Shriwastava	Participated in "Smart India Heckathon SIH 2022"	Gyan Institute of Technology and Sciences Ganga of	10/03/2022	Participated (* Promoted in next level)
4	Vishal Gupta	Participated in "Smart India Heckathon SIH 2022"	Gyan Institute of Technology and Sciences Ganga of	10/03/2022	Participated (* Promoted in next level)
5	Dileep Kumar Bhanware	Participated in "Smart India Heckathon SIH 2022"	Gyan Institute of Technology and Sciences Ganga of	10/03/2022	Participated (* Promoted in next level)

Placement Details of UG

S. No.	Name of The Student Placed	Company	Date	Branch
1	Akash Pathak	Collabera	Dec.-Jan. '22	ME
2	Ayush Soni	Collabera	Dec.-Jan. '23	ME
3	Sonali Pathak	Collabera	Dec.-Jan. '24	ME
4	Akash Pathak	Aloha	Jan. - Feb. '22	ME
5	Ayush Soni	Pyramid IT Consulting (P) Ltd.	5th April '22	ME
6	Vyom Narad	Reliance Jio	Jan.-Apr. '22	ME
7	Abhishek Mehra	Dhoot Transmission (P) Ltd.	23rd Apr. '22	ME
8	Aniket Sahu	Dhoot Transmission (P) Ltd.	24th Apr. '22	ME
9	Bhupendra Jain	Dhoot Transmission (P) Ltd.	25th Apr. '22	ME
10	Chanchal Shrivastava	Dhoot Transmission (P) Ltd.	26th Apr. '22	ME
11	Deepak Jain	Dhoot Transmission (P) Ltd.	27th Apr. '22	ME
12	Gagandeep Singh	Dhoot Transmission (P) Ltd.	28th Apr. '22	ME
13	Harshal Nahatkar	Dhoot Transmission (P) Ltd.	29th Apr. '22	ME
14	Kishor Khare	Dhoot Transmission (P) Ltd.	30th Apr. '22	ME
15	Nitesh Kumar Singh	Dhoot Transmission (P) Ltd.	31st Apr. '22	ME
16	Om Jain	Dhoot Transmission (P) Ltd.	32nd Apr. '22	ME
17	Pratik Choudhari	Dhoot Transmission (P) Ltd.	33rd Apr. '22	ME
18	Pravesh Asati	Dhoot Transmission (P) Ltd.	34th Apr. '22	ME
19	Shriyansh Patwa	Dhoot Transmission (P) Ltd.	35th Apr. '22	ME
20	Suraj Shukla	Dhoot Transmission (P) Ltd.	36th Apr. '22	ME

21	Umesh Kumar	Dhoot Transmission (P) Ltd.	37th Apr. '22	ME
22	Aakash Patel	Dhoot Transmission (P) Ltd.	38th Apr. '22	ME
23	Shubham Patel	Dhoot Transmission (P) Ltd.	39th Apr. '22	ME
24	Varun Satyogi	Dhoot Transmission (P) Ltd.	40th Apr. '22	ME
25	Vinod Jaiswal	Dhoot Transmission (P) Ltd.	41st Apr. '22	ME
26	Shahnawaz Ansari	E Clinical Works (P) Ltd.	Feb. '22 and May '22	ME
27	Rohit Kumar Patel	Youngman India (P) Ltd.	22nd June '22	ME
28	Shriyansh Patwa	Youngman India (P) Ltd.		ME

List of events organized under Professional Societies/ Chapters

S. No.	Name of Professional Societies/ Chapters	Event and Title	Chief Guest/ Resource Person	Date of event	No. of Participants/ Attendees	No. of days
1	MES	Training on MATLAB	Prof. Sandeep Kumar Dubey	11/01/2022-16/01/2022	36	5 days
2	MES	Lecture on HVAC/MEP Industry	Mr. Aasif	21/1/2022	45	1 day
3	CNA	Online certification courses on Network Essentials	Dr. Ashok Verma	28/1/2022	86	1 day
4	MES	Recent era in Automobile Industry	Mrs. Ruchi Choube	19/02/2022	37	1 day
5	MES	Training on Lathe Machine Operations	Prof. S. K. Das	22/03/2022-26/03/2022	35	5 days
6	CNA	Webinar on Programming for Network Engineers	Prof. Vivek Anand	23/4/2022	42	1 day

Gallery Section



Industrial visit on 19/04/2022, at Gun Carriage Factory, Jabalpur





*Sports activities on
18th June 2022 "Open Day Celebration"*





Alumni Meet on 18th of June 2022