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VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY



News Letter – June to August 2022

DEPARTMENT OF MECHANICAL ENGINEERING





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VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY



News Letter – June to August 2022

Editor's Desk



Greetings to Faculty, Students and Friends!

It gives me immense pleasure to bringing out this issue of our Departmental News Letter. First of all, I would like to express gratitude to Lord for guiding and inspiring each and every one of us do our best. I would like to thank each and every one in the department for their contribution, either directly or indirectly. Due regards to Management, Principal, Director and Head of the department for their kind co-operation and support in every activity of the department. This News Letter covers the various departmental activities like FDPs, Student achievements, Faculty achievements, Guest Lectures, Industrial visits, Faculty research contributions during June-August 2022. Looking forward to come up with a greater number of activities in the next issue with the co-operation of everyone of you.

Wish you happy reading. You are welcome to give your suggestions for improvement.

Thanks & Warm regards
Dr. Ajay Kumar Kaviti
Associate Professor



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Message from Head of the Department



Dear Faculty and Student Friends,

I am happy to inform you that our department organized a National Level 5 Day Online Faculty Development Programme on “Polymer Composites for Industry 4.0” from 13th -17th June 2022. Eminent personalities have delivered the lectures and shared their knowledge and experience. Nearly more than hundred participants have benefitted from this FDP. Our faculty members participated in faculty development programs, NPTEL certification courses to enhance their learning skills to benefit the students. Some of our faculty members actively participated in research activities like reviewing the well reputed international SCI journals. I am happy to share that student have successfully completed short term training programs on Machine Learning with Python and Introduction to Digital Marketing. Guest lectures and industrial visits are also regularly organized to give exposure to the present needs of the industry. Few of our faculty members published research papers in reputed journals which are indexed in SCI and Scopus.

Let's all strive a bit more and go beyond our comfort zone to achieve higher peaks.

With best wishes
Dr. B Satyanarayana
Head of Mechanical Engineering Department



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Department Faculty meeting conducted on 06-06-2022

Agenda:

1. B.Tech. Major Project Phase - II
2. UG NBA – B.Tech. (ME)
3. Mentoring of Students
4. Career Vision Approach
5. Student Discipline
6. Any other matters

Minutes of the Faculty & Staff Meeting:

1. **B.Tech. Major Project Phase – II:**
The Phase II major project reviews are scheduled on 24th & 25th June 2022 are discussed.
2. **UG NBA – B.Tech. (ME):**
Discussed progress of UG NBA work regarding updation of criteria files and course files.
3. **Mentoring of Students:** The II & III B. Tech ME students are having less no of credits up to I semester information given parents discussed the parent in-person about the status of students.
4. **Career Vision Approach:** The conduct of Career Vision Approach program for I B.Tech. ME students is started in June 2022.
5. **Student Discipline:** Faculty are deputed to monitor the students discipline near J S K Greens, Carridors and other common areas beyond working hours.
6. **Any other matters:** NIL

Department Faculty meeting conducted on 15-07-2022

Agenda:

1. UG NBA Work
2. III & IV B.Tech. Subject Allocation
3. JNTUH – Lab Master
4. Mentoring
5. Any other matters

Minutes of the Faculty & Staff Meeting:

1. **UG NBA – B.Tech. (ME):**
Discussed progress of UG NBA work regarding updation of criteria files and course files.
2. **III & IV B.Tech. Subject Allocation:** HOD informed that he will send the Subjects Allotment List to the Staff and the Subjects Allotment is to be done immediately for the next semester so that the Staff can make ready the Teaching Plan, Teaching Notes, WIT & WIL, Digital Content etc.
3. **JNTUH – Lab Master:** All the staff have been instructed to check and prepare lab master document and make it ready for uploading JNTUH website for its verification on the day of the committee visit.
4. **Mentoring of Students:** The HOD informed that the First and the Foremost Important Matter is Student Mentoring.

- Each Mentor must interact with their Mentee Students at least fortnight once on Saturdays on one-to-one basis. The Mentee Students belong to both the B. Tech and M. Tech Programs. The Mentors will have to monitor the Issues related to the Mentee Students like Student Attendance, Academic Performance, Placements, Student Welfare, Student Achievements etc.
- Any other matters:** The eligible faculty are informed to prepare research proposals as early as possible.

Faculty Achievements:

- Dr. B. Satyanarayana, Professor and Dr. B.V.R. Ravikumar are ratified as professors under JNTUH.
- Dr. B. Satyanarayana, Professor, acted as an external examiner for evaluating the B.Tech. projects in Vasavi College of Engineering, Hyderabad on 10th June 2022.
- Dr. Yeole Shivraj Narayan, Professor/ME has Reviewed the Journal Paper on “The Manufacturing Executing System as a shop floor management system”. JENRS publisher.
- Dr. Yeole Shivraj Narayan, Professor/ME has Reviewed the Journal Paper on “Predictions of effective parameters using vikor and copras method in electrochemical micro machining process”. Pusan National University.
- Dr. Y. Shivraj Narayan, Professor/ME submitted a proposal

on “Development of Additively Manufactured periodic cellular structures using Ti6AL4V alloy for skull implant prototype with equivalent weight” for an amount of 47,31,640/- on 4th July 2022.

- Smt. Ch. Priyadarsini, Assistant Professor/ME has submitted Ph.D. thesis on “ Investigation of mechanical, corrosion and tribological properties of nano ZrB₂ reinforced Al6061 composites synthesized by stir casting and powder metallurgy processes “on 6th July 2022.

Students Achievements:

- Devasani Shiva Kumar Reddy, 19075A0302 has received gold medal, for securing highest CGPA among students of all the branches in III year.
- Appana Naga Venkata Pavan Karthik, 20075A0308 has received gold medal, for securing highest CGPA among students of all the branches in II year.

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Students sponsored for Seminars/Workshops/Training Programmes/Sports conducted in the Institute/outside the Institute:

S. No	Particulars of the Event	Beneficiaries	Date	No. of Participants	Impact of Program
1.	Art of Living	I. B.Tech. Students	13 th – 18 th June 2022	25	Students experienced stress relieving technics

The Department of Mechanical Engineering organized a Career Vision session on “Sports and Fitness” is conducted for I. B. Tech ME I students from 1:40 to 2:40PM in Class Room (D - 301). **Resource Person:** Dr. G. SREERAMA, Physical Director, Humanities & Sciences, VNRVJIET. Total 28 students of I B.Tech. (ME-1) attended.

Show & Tell:

S. No	Name & Roll No. of Student	Project/Concept demonstrated	Date
1.	Cheguri Srinivas, 19071D3302, M. Tech (AMS)	Modelling and Simulation of PLC based Semi-Automatic Rotary Indexing System	09-06-2022
2.	IV B.Tech. ME Students	All B.Tech. final year projects	13-06-2022 to 23-06-2022
3.	Tenugolla Somasundar Siva Saikumar, 18071D3314 M. Tech (AMS)	Fabrication of Automated Pad Printing Machine	29-07-2022
4.	Pirakala Chetan Reddy, 18071D3311 M. Tech (AMS)	Experimental Investigation on Double Sandwich Composites	29-07-2022

Other awareness programmes for students

No.	Details of the Event	Topic	Dates of event held	No. of Participants	Resource Persons (if any)
1.	Career Vision Session	Awareness on sports activities	13 th June 2022	42	Dr. G. Sreerama, Physical Director, Humanities & Sciences,
2.	Training Programme	Data Structures through C	19 th July 2022	111	K Venkata Ramana, Assistant Professor, Computer Science & Engineering, VNRVJIET
3.	Training Programme	Data Structures through C	21 st July 2022	112	K Venkata Ramana, Assistant Professor, Computer Science & Engineering, VNRVJIET
4.	Training Program	Python	Started on 25 th July 2022	9	Mr. P. Venkateswara Rao Assisstant professor – IT.

Student Association Activities:

S. No.	Name of the student Association	Nature of event Conducted	Dates on which the event was held	Topic	No. Participated
1.	ASME	Expert Talk	24-06-2022	Hydrogen Fuel Cells- Future of Sustainable Energy” by Dr. G. Vasu, Sr. Manager in Fuel Cells & Renewable	148 Faculty - 05

Department of Mechanical Engineering conducted Parent interaction meeting successfully complete on 24/08/2022 from 10:00 AM to 05:00 PM in the Mechanical Engineering Department Library for 1st B. Tech ME (both sections). Total 35 Parents attended the meeting along with their wards.

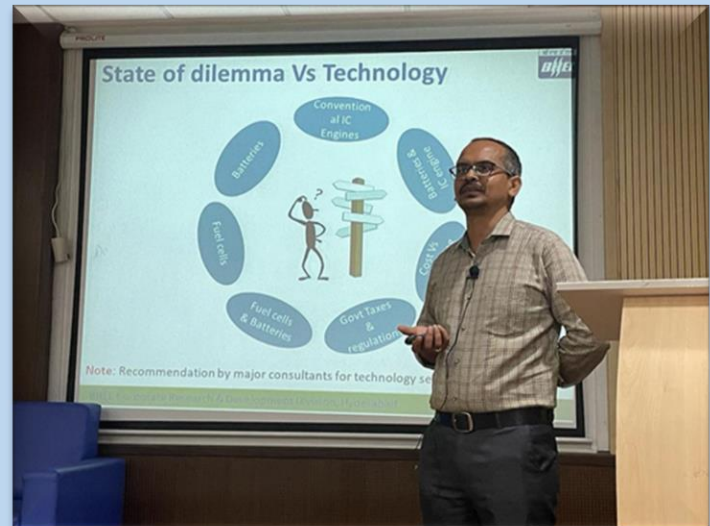




Cheguri Srinivas, 19071D3302 of M, Tech (AMS) presented his project work on “Modelling and Simulation of PLC based Semi-Automatic Rotary Indexing System” in the Shoe & Tell Activity on 09-06-2022 at Sri. Panda Punnaiah Square. Total 10 students visited.



Department of Mechanical Engineering organized a **Guest Lecture on “Employability Skills”** by G. Goutham, Technical Associate, Development Bank of Singapore, Hyderabad on 18th June 2022.



Department of Mechanical Engineering organized an **Expert Talk on “Hydrogen Fuel Cells- Future of Sustainable Energy”** by Dr. G. Vasu, Sr. Manager in Fuel Cells & Renewable Energy Systems at BHEL R&D, Balanagar on 24th June 2022.



The Department of Mechanical Engineering has organized training Programme on “**Data Structures through C**” for I B. Tech (ME) students. The training is given by K Venkata Ramana, Assistant Professor, Computer Science & Engineering on 21st July 2022 at A P J Abdul Kalam Auditorium. A Total Number of 112 Students has attended the training program.



The Department of Mechanical Engineering has organized training Programme on “**Data Structures through C**” for I B. Tech (ME) students. The training is given by K Venkata Ramana, Assistant Professor, Computer Science & Engineering on 19th July 2022 at A P J Abdul Kalam Auditorium. A Total Number of 111 Students has attended the training program.



Department of Mechanical Engineering conducted a guest lecture for I B. Tech ME – II students on 04/08/2022 10 am to 11 am on the topic **Sahaja Yoga** – resource person Mr. Ashish, Product Manager, Google, India. Total 48 students attended.

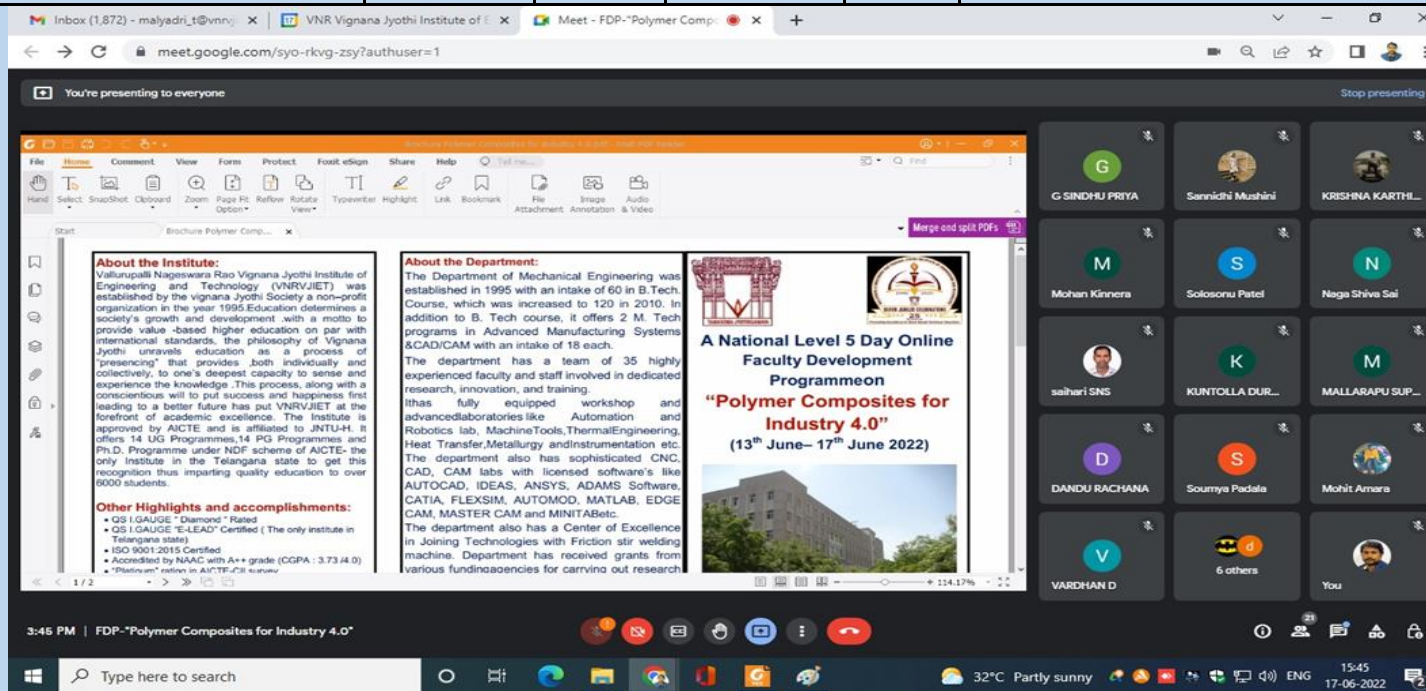


Department of Mechanical Engineering conducted a guest lecture for I B. Tech ME – II students on 03/08/2022 10 am to 11 am on the topic **Sahaja Yoga** – resource person Mr. Uday Shankar Peyyeti, Vice President, Sales & CSR, India. Total 43 students attended.

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Faculty Development Program (FDPs)

S. No.	Name of the Event	Duration	For Whom	No. of Participants		Resource Persons
				VNRVJIET	Others	
1.	A National Level 5 Day Online Faculty Development Programme on “Polymer Composites for Industry 4.0”	13 th - 17 th June 2022	Faculty	18	32	1. Dr. N Kishore Nath Scientist F, Defence Research Development Organization, Hyderabad, Telangana, India. 2. Dr. Nagamadhu M, Assistant Professor, Department of Mechanical Engineering, Acharya Institute of Technology, Bengaluru, Karnataka, India.



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Industrial Visits and Tours

S. No.	Staff/Student	Industry Visited	Date of the Visit	Location of the Industry	No. of students Visited	Impact
1.	II B. Tech (ME-II) & Students & Faculty – 03 1. Dr. G. Srinivasa Gupta, Professor/ME 2. Dr. K. Aruna Prabha, Assistant Professor/ME 3. H. Naresh, Assistant Professor/ME	Akshaya Patra Foundation	2nd July 2022	Shankar Palli Road, Opp. RTA, Khandi Sangareddy, Hyderabad, Telangana 502285	B. Tech Student - 41	The main aim of the visit is to explore the real time industrial scenario and its effect, finally to fulfil the gap between theoretical education vs industrial market.
2.	II B. Tech (ME-I) & Students & Faculty – 02 1. Dr. G. Srinivasa Gupta, Professor/ME 2. Dr. N. Kiran Kumar, Associate Professor/ME	Akshaya Patra Foundation	4th July 2022	Shankar Palli Road, Opp. RTA, Khandi Sangareddy, Hyderabad, Telangana 502285	B. Tech Student – 46 & M. Tech Student - 8	

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II B. Tech (ME-II) Students industrial visit of Akshaya Patra Foundation



II B. Tech (ME-I) Students industrial visit of Akshaya Patra Foundation

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FACULTY PUBLICATIONS

Faculty Name, Designation & Department	List of Authors in the order that appears on the paper	Full title of the paper	Journal name	Volume, Issue, Page No.	Month/ Year of publication	ISSN / ISBN No.	Indexed in Web of Science /Google Scholar /Scopus
Dr. Y. Shivraj Narayan, Professor/ME	Poornaganti Satyanarayana, VNRVJIET, Dr. Y. Shivraj Narayan, Mr. K. Jaya Prakash	Insights on surface characterization of 3D printed polymeric parts	Materials Today: Proceedings	62, Part 6, pp. 3837-3848	24 th June 2022	2214-7853	Scopus
Dr. S. V. S. S. Srinivasa Raju, Professor/ME	Dr. K. Veeraiah, Department of Management studies Marri Laxman Reddy institute of technology & Management	Role of Artificial Intelligence in Financial Management	IEEE	2022 International Conference on Computer Communication and Informatics (ICCCI) 978-1-6654-8035 DOI: 10.1109/ICCCI 54379.2022.9740900	June 2022	----	IEEE
T. Malyadri, Assistant Professor/ME	T. Malyadri, J. Suresh Kumar, JNTU - Hyderabad	COMPUTER NUMERICAL CONTROL LATHE-BASED	International Conference on Advanced	----	28 th – 30 th June 2022	----	Scopus

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Faculty Name, Designation & Department	List of Authors in the order that appears on the paper	Full title of the paper	Journal name	Volume, Issue, Page No.	Month/ Year of publication	ISSN / ISBN No.	Indexed in Web of Science /Google Scholar /Scopus
		PROCESSING OF AGAVE AMERICANA AND BASALT CNT ALUMINIUM MESH REINFORCED POLYESTER HYBRID COMPOSITES	Communication Control & Computing Technology (ICACCCT-2022)				
T. Malyadri, Assistant Professor/ME	T. Malyadri, J. Suresh Kumar, JNTU - Hyderabad	COMPUTER-AIDED WATER JET MACHINING OF CNT NANOFILLER INFUSED AGAVEAMERICANA/BASALT/ALUMINIUM MESH REINFORCED POLYESTER HYBRIDCOMPOSITE	International Conference on Advanced Communication Control & Computing Technology (ICACCCT-2022)	----	28 th – 30 th June 2022	----	Scopus
T. Malyadri, Assistant Professor/ME	T. Malyadri, J. Suresh Kumar, JNTU - Hyderabad	COMPUTER CONTROLLED ELECTRIC DISCHARGE MACHINING OF CNT NANOFILLERINFUSED	International Conference on Advanced Communication	----	28 th – 30 th June 2022	----	Scopus

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Faculty Name, Designation & Department	List of Authors in the order that appears on the paper	Full title of the paper	Journal name	Volume, Issue, Page No.	Month/ Year of publication	ISSN / ISBN No.	Indexed in Web of Science /Google Scholar /Scopus
		AGAVE AMERICANA/BASALT/AL UMINIUM MESH REINFORCED POLYESTERHYBRID COMPOSITE	on Control & Computing Technology (ICACCCT- 2022)				
T. Malyadri, Assistant Professor/ME	T. Malyadri, J. Suresh Kumar, JNTU - Hyderabad	COMPUTER NUMERICALCONTROL ENGRAVING OF AGAVE AMERICANA AND BASALT GRAPHENE ALUMINIUM MESH REINFORCED POLYESTER HYBRID COMPOSITES	International Conference on Advanced Communicati on Control & Computing Technology (ICACCCT- 2022)	----	28 th – 30 th June 2022	----	Scopus
T. Malyadri, Assistant Professor/ME	T. Malyadri, J. Suresh Kumar, JNTU - Hyderabad	AGAVE AMERICANA AND BASALT GRAPHENE ALUMINIUM MESH REINFORCED POLYESTER HYBRID COMPOSITE'S MACHINABILITY INVESTIGATION IN	International Conference on Advanced Communicati on Control & Computing Technology	----	28 th – 30 th June 202222	----	Scopus

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		COMPUTER NUMERICAL CONTROL DRILLING	(ICACCCT-2022)				
Dr. N. Kiran Kumar, Associate Professor/ME	Chetan Reddy Pirakala, Kiran Kumar Namala, Nagasrisaihari Sunkara	EXPERIMENTAL INVESTIGATION ON FLEXURAL BEHAVIOUR AND MOISTURE ABSORPTION OF DOUBLE SANDWICH COMPOSITES	Journal of East China University of Science and Technology	Volume 65, Issue 3, Pages 183-190,	16 th July 2022	ISSN: 1006-3080	Scopus